

1958

CENSUS OF MANUFACTURES

VOLUME II  
INDUSTRY STATISTICS

PART 2  
MAJOR GROUPS 29 to 39

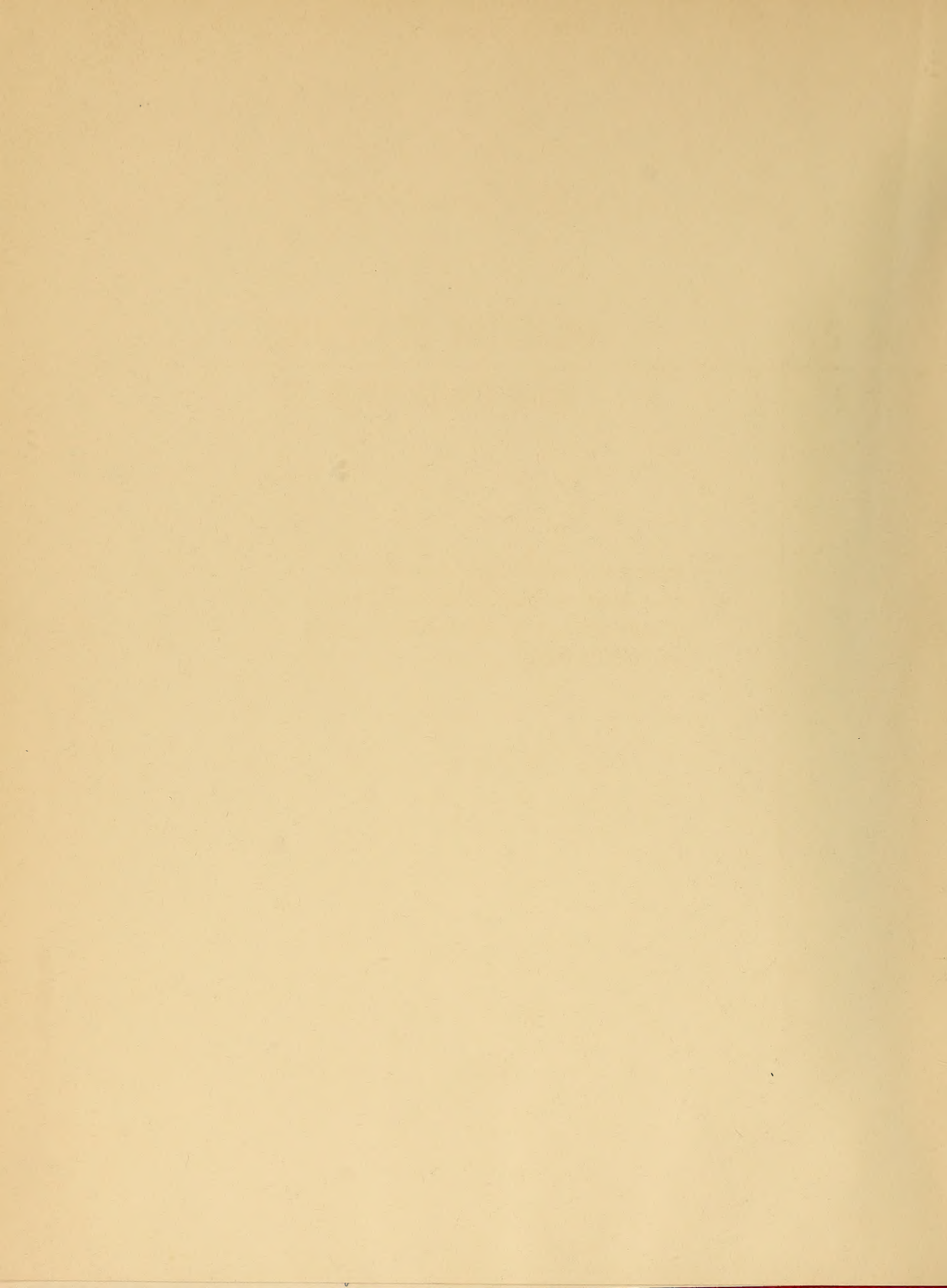


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**VOL. II**

**Part 2**

## **INDUSTRY STATISTICS**

### **Major Groups 29 to 39**

**Employment, Payroll, Capital Expenditures,  
Value Added, and Related Statistics by Industry;  
Quantity and Value of Individual Materials Used  
and Products Made**

Prepared under the supervision of  
**MAXWELL R. CONKLIN**  
Chief, Industry Division

**U.S. DEPARTMENT OF COMMERCE**  
Luther H. Hodges, Secretary



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This volume comprises the Industry Reports, Series MC58(2), of the 1958 Census of Manufactures.

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## PREFACE

This is one of a series of volumes presenting final results of the 1958 Census of Manufactures. As for earlier censuses, the 1958 census was a large-scale undertaking which depended upon significant contributions from numerous public and private organizations and individuals. Basic to the census was the excellent cooperation of some 300,000 manufacturing establishments in completing the appropriate report forms. As important to the conduct of the 1958 Census of Manufactures was the cooperation of the Bureau of Old-Age, Survivors, and Disability Insurance and the Internal Revenue Service in permitting use of certain records, thus making possible a material reduction in the cost of conducting the census.

The advice of trade associations, individual manufacturers, Government agencies, and research and marketing organizations was most valuable in determining the content of the reports and in developing techniques for minimizing the burden of reporting. Also noteworthy was the assistance of the Advisory Council on Federal Reports, which through special panels of industry experts advised on the feasibility of collecting various types of data. Timely publicity was given to the census by Chambers of Commerce, the National Association of Manufacturers and other business groups, trade papers, local newspapers, and television and radio stations.

The 1958 Census of Manufactures was conducted under the direction of Maxwell R. Conklin, Chief, and Owen C. Gretton, Assistant Chief, of the Industry Division. Within the Industry Division this responsibility was shared along industry lines by the following individuals who also contributed significantly to the entire census program: Willis K. Jordan, Foods, Textiles, and Apparel; Cyril M. Wildes, Lumber, Paper, and Chemicals; and Clarence H. Olsen, Metals, Machinery, and Equipment. Irving Rottenberg was responsible for the concepts and definitions of establishment-type data and for computer specifications for editing and tabulating the data. Jack J. Gottsegen developed the criteria for selecting commodity and material items in the output and input inquiries and for the standards for processing these data. Jack L. Ogun was responsible for the statistical methods and sampling used in the census.

The application of the system of the industrial classification of establishments was coordinated by Irvin Strauss in the later stages of the census and by Isidore Bogdanoff during the earlier period. Staff coordination on various phases of the processing of the establishment-type statistics and the preparation of the area and selected subject reports was the responsibility of Arthur W. Horowitz. The preparation of the final manuscript for printing was the responsibility of Angela R. Daly. Other staff area members whose contributions are deserving of special mention are: Donald F. Clark, William I. Karr, Peter R. Ohs, Edward K. Ricketts, and Robert Torene.

In the commodity areas of the Industry Division, staff statisticians developed the report forms for the various industries, reviewed the problem reports and tabulations, and prepared the industry texts that accompanied the data. These areas and those in charge are: Foods, Edward A. Robinson; Textiles, Milton Eisen; Apparel, Shirley Kallek; Lumber and Furniture, Elmer S. Biles; Paper, Printing, and Publishing, Edward D. Gruen; Chemicals, Reese R. Morgan; Metals and Metal Products, Paul F. Berard; Machinery, William R. Gray; and Electrical Machinery and Transportation Equipment, Bernard P. Bernstein. The names of supporting statisticians in the commodity areas that made significant contributions are shown in the introductory portion of the 80 industry reports which were published separately prior to their assembly into the Industry Volume.

Processing of the reports was performed in the Economic Operations Division under the supervision of Irving Weiss, Assistant Chief, Processing, assisted by Max E. Van Horn, for the Washington operations, and Charles Merzel, Donald E. Young, Wesley R. Grier, and Bernard M. Linney for operations in the Census Operations Office in Jeffersonville, Indiana. Systems and procedures were developed under the supervision of Sol Dolleck, Assistant Chief, Systems, assisted by Samuel Schweid, for Methods Evaluation and Determination; Jack Margoli, for Liaison and Systems Development; Nathan Lesowitz, aided by Carl Mueller, for development and preparation of procedures; and Jack Scharff, aided by Eugene L. Wendt, Mary H. Johnson, and Duryee Van Wagenen, for development and supervision of electronic computer programming. Quality control plans and procedures were developed and supervised by Herman H. Fasteau, assisted by George Minton, Alfred J. McKeon, and Ruth H. Mills. Scheduling, progress reporting, and related staff work were supervised by Wilbur J. Mathias and Margaret R. Rommel.

In the Data Processing Systems Division, Rudolph M. Micoly and James W. Shores supervised the scheduling and operation of electronic equipment; Edgar D. Morgan and William M. Gaines supervised equipment engineering and maintenance, and Mrs. Dorothy P. Armstrong supervised general-purpose computer programming activities. Joseph S. Pewterbaugh and Emil Gorgovits developed techniques and procedures relating to the machine tabulation phases; and Frank McGrath, assisted by Emma Gass, supervised the card punching.

Staff members in other divisions and offices of the Bureau also contributed to the various phases of the census. Robert Klove, Assistant Chief of the Geography Division, assisted by Robert P. Condon and Alford Archer, supervised the preparation of the maps and charts. Robert H. Eriks, Chief, Graphics Branch, Administrative Service Division, was responsible for the preparation of copy for reproduction. Sheldon M. Klein, Chief, and Ingrid L. Millison, of the Presentation Practices Branch, Statistical Reports Division, reviewed text material and table forms and assisted on publication problems. Harold T. Goldstein, of the Office of the Chief Economic Statistician, was responsible for the review of manufacturing industry coding manuals and for coordinating coding concepts with those followed in the Business and Minerals Industries fields. Robert D. Krook, Executive Officer, Census Operations Office at Jeffersonville, Indiana, was responsible for the phases of the processing operations performed there.



# 1958 CENSUS OF MANUFACTURES FINAL REPORT

## Volume I: SUMMARY STATISTICS

### Chapter

- I. General Summary
- II. Size of Establishments
- III. Type of Organization
- IV. Manufacturers' Inventories
- V. Expenditures for Plant and Equipment
- VI. Fuels and Electric Energy Consumed

### Chapter

- VII. Selected Materials Consumed
- VIII. Selected Metalworking Operations
- IX. Selected Costs and Book Value of Fixed Assets
- X. Distribution of Manufacturers' Sales
- XI. Industrial Water Use

SPECIAL REPORTS: Manufacturing Activity in Government Establishments, Series MC58(S)-1 (also appears in all three Volumes)

Location of Manufacturing Plants, by Industry, County, and Employment Size, Series MC58(S)-2.1—MC58(S)-2.9

Chapters I—XI also issued as separate reports in Series MC58(1)

## Volume II: INDUSTRY STATISTICS

Separate chapters for each of 80 groups of related industries. These chapters include, for approximately 430 individual industries, statistics on detailed product shipments and materials consumption in terms of quantity and value, cost of fuels and electric energy, value added by manufacture, employment, payrolls, inventories, and capital expenditures.

Selected statistics are included for earlier census years. The 1958 statistics are based on the revised Standard Industrial Classification (July 1957 edition). Also included in this volume is a general summary chapter and separate summary chapters for each of the 20 major industry groups. (The 80 industry group chapters were issued as separate reports in Series MC58(2)-20A—MC58(2)-39E.)

## Volume III: AREA STATISTICS

Separate chapters for each State, the District of Columbia, and Alaska and Hawaii. Statistics for standard metropolitan statistical areas, counties, and cities, and States by industry with cross-classification by industry groups for important standard metropolitan statistical areas and larger counties. These statistics

are based on the revised Standard Industrial Classification (July 1957 edition). Also included in this volume is a summary chapter for each of the nine geographic divisions. (The area chapters were issued as separate reports, Series MC58(3)-1—MC58(3)-51.)

## 1958 CENSUS OF MINERAL INDUSTRIES FINAL REPORTS

Volume I: Summary and Industry Statistics

Volume II: Area Statistics

## 1958 CENSUS OF BUSINESS FINAL REPORTS

Volume I: Retail Trade—Summary Statistics

Volume II: Retail Trade—Area Statistics

Volume III: Wholesale Trade—Summary Statistics and Public Warehousing

Volume IV: Wholesale Trade—Area Statistics

Volume V: Selected Services—Summary Statistics

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#### Group

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The pages of each report were numbered independently; page numbers of industry reports consists of two parts, the first part being an industry designation. Thus, page 21-1 is page 1 of the report for Industry Group 21, Tobacco Products; page 35C-23 is page 23 of the report for Metalworking Machinery and Equipment (final report MC58(2)-35C).

Revisions of data previously published in the corresponding pages of Manufactures Industry Statistics Final Reports Series MC58(2) are indicated by a symbol "r."



# GUIDE TO CONTENTS OF INDUSTRY VOLUME TABLES

## A. Description of Detailed Industry Tables

(See next page for key to data contained in tables)

### Table 1. --General Statistics for the United States: 1958 and Earlier Years.

Selected general statistics (number of establishments, employment, payolls, value added by manufacture, cost of materials, and value of shipments) for each industry extended as far back as comparable data are available.

### Table 2. --General Statistics by Regions and States: 1958, 1954, and 1947.

Selected 1958 and 1954 general statistics for each industry distributed by geographic divisions and States.

### Table 3. --Detailed Statistics for the United States: 1958.

Detailed statistics (employment, fuels, electric energy, inventories, capital expenditures, etc.) for each industry.

### Table 4. --Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958.

Number of establishments, number of employees, payrolls, value added by manufacture, value of shipments and new capital expenditures for establishments in each industry by ten size classes.

### Table 5A. --Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954.

Total value of shipments of the industry divided between shipments of products classified in the industry (primary products, products belonging to other industries (secondary products), and miscellaneous receipts. The shipments of the industry's primary products by other industries are also shown.

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### Table 8. --General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958.

Establishments are grouped in two ways: first, according to their degree of specialization in all primary products of the industry and then by the degree of specialization in the largest primary product class of the establishment.

Other Tables--Miscellaneous tables such as metalworking operations, equipment in place, special production statistics, statistics by old S. I. C. code, are included where applicable.



## B. Key to Data Shown in Industry Tables

(Historical data for selected items are given in tables 1, 2, 5A, 6A, 6B, and 7 to the extent that comparability permits)

Data item	Tables in which data item is shown	
	For industry as a whole	For States and divisions
<u>GENERAL STATISTICS</u>		
Number of companies.....	1	
Number of establishments:		
Total.....	1-4, 8	2
By employment size .....	1-4	2
Proprietors and working partners, number.....	3	
All employees:		
Number (average for the year).....	1-4, 8	2
Payrolls.....	1-4, 8	2
Production workers:		
Number (average for the year).....	1-3, 8	2
Number for selected months (March, May, August, and November)	3	
Wages.....	1-3, 8	2
Man-hours:		
Total for the year.....	1-3, 8	2
By quarters.....	3	
Value of shipments (including resales), total.....	1-4, 8	2
Value of resales.....	3	
Value added by manufacture.....	1-4, 8	2
Cost of materials, fuels, electricity, resales and contract work, total	1-3, 8	
Materials, parts, containers, and supplies, total.....	3, 7	
Selected individual materials.....	7	
Fuels consumed.....	3	
Electricity purchased.....	3	
Contract work.....	3	
Cost of resales.....	3	
Inventories, totals for beginning and end of year, with separate figures for finished goods, work-in-process, and materials, supplies, etc.....	3	
Expenditures for plant and equipment, total.....	3	
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## B. Key to Data Shown in Industry Tables--Continued

Data item	Tables in which data item is shown	
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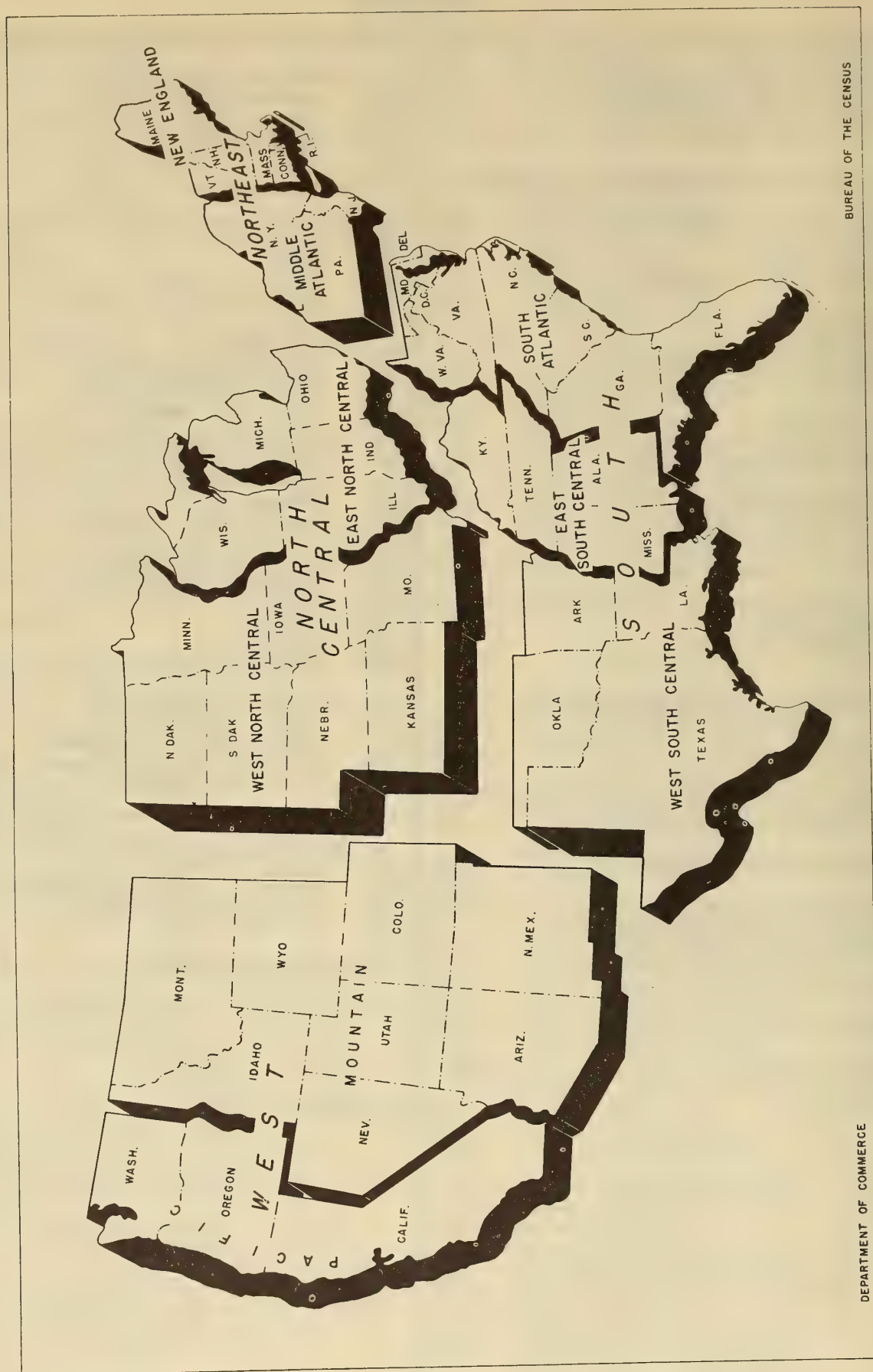
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REGIONS AND GEOGRAPHIC DIVISIONS OF THE UNITED STATES



BUREAU OF THE CENSUS

DEPARTMENT OF COMMERCE



# INTRODUCTION

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### 1. Historical Note

The 1958 Census of Manufactures is the twenty-sixth such census of the United States. The first census of manufactures covered 1809, and (with the exception of 1829) a census was taken at 10-year intervals in connection with the decennial census of population up to and including 1899. It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939. The census was suspended during World War II, but it was resumed for 1947. Legislation enacted in 1948 provided for a Census of Manufactures every 5 years, with annual sample surveys authorized for interim years. Annual surveys of manufactures have been taken for the years 1949 through 1953 and 1955 through 1957. A census of manufactures, originally scheduled to cover 1953, was

conducted for 1954 on the basis of special legislation authorizing this change.

The 1958 Census of Manufactures was conducted jointly with the Censuses of Business (Wholesale, Retail, and Services) and Mineral Industries, covering the United States, Alaska, Hawaii, Guam and the Virgin Islands. Separate Censuses of Manufactures and Business for 1958 were also conducted in Puerto Rico jointly with the Commonwealth Government. The statistics in this report do not include establishments in Alaska and Hawaii, which did not achieve Statehood until 1959. Reports for Alaska and Hawaii were issued separately in the series of area reports and appear as separate chapters in the Area Statistics volume.

TABLE A.--NATIONAL INCOME BY INDUSTRY DIVISION

Industry division	In billions of dollars						As percent of total					
	1929	1939	1947	1954	1956	1958	1929	1939	1947	1954	1956	1958
All industries, total.....	87.8	72.8	198.2	301.8	350.8	367.4	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing.....	21.9	17.9	58.7	91.1	109.3	103.8	24.9	24.6	29.6	30.2	31.2	28.3
Agriculture, forestry & fisheries.....	8.3	6.0	19.3	16.9	16.1	18.3	9.5	8.2	9.7	5.6	4.6	5.0
Mining.....	2.0	1.6	4.1	4.9	6.2	5.4	2.3	2.2	2.1	1.6	1.8	1.5
Contract construction.....	3.8	2.3	8.4	16.0	19.5	19.9	4.3	3.2	4.2	5.3	5.6	5.4
Wholesale & retail trade.....	13.3	12.5	37.3	50.6	58.2	61.1	15.2	17.2	18.8	16.8	16.6	16.6
Finance, insurance & real estate	12.7	7.9	15.3	29.3	32.4	37.6	14.5	10.9	7.7	9.7	9.2	10.2
Transportation.....	6.6	4.6	11.5	14.4	16.8	16.4	7.5	6.3	5.8	4.8	4.8	4.5
Communications & public utilities.....	2.9	2.9	5.1	10.8	12.7	14.2	3.3	4.0	2.6	3.6	3.6	3.9
Services.....	10.3	8.3	19.0	30.2	37.3	42.0	11.7	11.4	9.6	10.0	10.6	11.4
Government & government enterprises.....	5.1	8.5	18.6	35.9	40.4	46.6	5.8	11.7	9.4	11.9	11.5	12.7
Rest of the world.....	.8	.3	.8	1.6	2.0	2.1	0.9	0.4	0.4	0.5	0.6	0.6

Source: Department of Commerce, Survey of Current Business, July 1961, and U. S. Income and Output.



## 2. Publication of the 1958 Census Results

Results of the 1958 Census of Manufactures are published in three volumes: Volume I, Summary Statistics, shows comparative statistics for industries, States, and principal metropolitan areas for the more important measures of the activity of manufacturing establishments—employment, payrolls, inventories, capital expenditures, value added by manufacture, important materials consumed, etc.; Volume II, Industry Statistics, is a consolidation of reports for the 80 groups of industries and shows detailed information on individual industries and products; Volume III, Area Statistics, shows for each State and its important metropolitan areas and counties, general statistics (number of establishments, number of employees, payrolls, value added by manufacture, and capital expenditures) for each of the industries or industry groups of consequence in that State or in its smaller areas. Totals for all manufacturing are shown for all counties and for cities of 10,000 inhabitants or more. Supplemental reports, such as the Index of the Physical Volume of Production, are also included in the publication program.

## 3. Significance of the Manufacturing Sector of the Economy

Manufacturing is the largest of the industrial sectors in the economy. Table A shows that manufacturing accounts for approximately 30 percent of the total national income. The next largest sector, wholesale and retail trade, covers less than 20 percent.

## 4. Definition of Manufacturing Industries

The 1958 Census of Manufactures covers all establishments primarily engaged in manufacturing as defined in the 1957 revision of the Standard Industrial Classification (SIC) Manual. This manual, issued under the auspices of the United States Bureau of the Budget, was first published in 1939. It represented in large part a codification and updating of the classification systems previously used in the censuses. During the 1940's substantial revisions in the classification of both manufacturing and nonmanufacturing industries were issued. Further SIC revisions approved by the Bureau of the Budget were adopted in the 1954 Censuses of Business, Manufactures, and Mineral Industries, but the SIC manual was not reissued at that time. Most of the SIC revisions used in the 1954 Censuses, as well as many other changes, were subsequently incorporated into the 1957 revision after extensive joint industry-government meetings.

The SIC is the system used by all Federal statistical agencies, by most State agencies, and many private organizations. There is no other industrial classification system in widespread use, nor is there any other general purpose system that is described in detail in official manuals or other published documents. Awareness of the SIC by business analysts, executives, statisticians, research scholars, and others has grown rapidly and will continue to increase particularly in view of the adaptability of the decimal numeric system in mechanical processing.

The SIC is an industrial classification of the total economy. It divides all activities into broad industrial divisions (manufacturing, mining, retail, agriculture, etc.). It further subdivided each division into major industry groups, then into industry groups, and finally into detailed industries. The numbering system provides flexibility, permitting use of classification at various levels of detail according to the specific needs and uses desired.

The manual defines manufacturing as the mechanical or chemical transformation of inorganic or organic sub-

stances into new products. The assembly of component parts or products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some service activities (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for the trade; but they are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

Two general principles apply to the SIC as a whole: All economic activities should be accounted for, and each successive decimal within a major group should provide for further breakdown within a related field. In addition, for manufactures and most other sectors the system is aimed primarily at classifying the primary activity of an individual establishment as distinguished from the firm or enterprise which might consist of more than one establishment. Also, a good deal of attention has been given, especially in the manufactures sector, to the desirability of minimum criteria for the designation of the most detailed (4-digit) industries. In order to qualify as a separate 4-digit industry the aggregate of employment or volume of activity of the establishments to be included should be of significant size. For the 1957 revision, a manufacturing industry was ordinarily required to have in excess of 3,000 employees and \$15 million value added by manufacture in order to be retained as a separate 4-digit industry; approximately twice these magnitudes were necessary for a new industry to qualify for a place in the SIC structure. Generally, the establishments included in an industry had to flow from the business structure itself; that is, the actual organization of industry as conceived of by the business community itself was an important factor.

Of course, many rather clearly defined groups of establishments are not economically important enough to meet the size criterion. These are either combined with a related larger industry or included in a "not elsewhere classified" category at the end of a 2- or 3-digit group.

Other principles or criteria are applied differentially. For the majority of the 426 manufacturing industries, the industry is defined in terms of a specific group of related products. Usually, but not always, the products are made of similar materials and by similar processes, and the producers usually compete with one another. In determining the boundaries of product defined industries, it is essential that each industry comprise a group of establishments whose output of products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries.

Some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. A small number of industries are basically defined by material used as well as final product of the plant.



There are wide differences among industries in the extent to which the establishments classified in the industry (a) account for the total production of commodities "primary" to the industry, (b) produce products or services "belonging" to other industries, and (c) use similar materials or processes. (See paragraphs 7, 28, 29, and 30.) These variations and data limitations are not infrequently construed to be shortcomings in the classification system. This attitude mistakes the symptoms for the disease. The fact is that the limitations observed in the classification structure arise from the inherent complexity of our economic system and from the disparity among the individual producing units of which it is comprised. Any conceivable organization of economic units into classes will ordinarily show marked variations in most characteristics other than the one used as the criterion for classification.

Frequently the business world and other data users look at a group of establishments from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers or they may be individually grouped with other products of similar materials such as converted paper products, wood products, glass products, etc.

No single classification system will satisfy all or even a large number of possible uses of the data to be classified. Accordingly, users of data frequently regroup detailed SIC industries into broad groupings along lines different from those in the SIC 2- and 3-digit categories. The Federal Reserve Board for many years has made combinations to stress such criteria as durable, nondurable, consumers, producers, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. By and large, the 4-digit industries are susceptible to allocation to such categories, while the 2-digit SIC groups are not.

The following types of activities, while having many of the characteristics usually found in manufacturing, are defined as nonmanufacturing by the SIC, and, therefore, are excluded from the census:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, cotton ginning, and similar activities.

(b) Mineral preparation such as the crushing, screening and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census; for example, stone and clay mining at cement, lime and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

Consistent with the SIC, the census does not cover manufacturing when performed (1) by retail establishments

which sell most of their products on the premises directly to household consumers; e.g., retail bakeries, ice cream stores, and feed stores, (2) by contractors at the site of construction; e.g., production of paving mixtures; and (3) by educational, eleemosynary, and penal institutions.

It is not unusual for manufacturing establishments to engage also in such nonmanufacturing activities as repair work, merchandising of products without further processing, and installation work. Ordinarily, such nonmanufacturing receipts are small in relation to the manufacturing activities and, in such instances, it is not difficult to determine that the establishments should be included in the manufactures area. However, where these nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the allocation of that establishment to the appropriate major economic sector is more difficult.

In the 1958 Economic Censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on an approximation, was considered preferable to reported dollar volume of receipts from each type of activity, since manufacturing requires considerably more man-hours, salaries and wages, and other inputs per dollar of receipts than either wholesaling or retailing. In the case of establishments engaged in manufacturing and also in mining, repair work, installation, construction or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable inputs per dollar of receipts.

Data were obtained on the manufacturing activities during 1958 of establishments owned and operated by the Federal Government (military arsenals, Navy yards, etc.) and of Federal and State prisons for the purpose of presenting complete information on manufacturing operations in the United States. Statistics on the employment, value added by manufacture, and products manufactured by these establishments are shown in a separate chapter in each Manufactures volume. Such data are not included elsewhere in the statistical tables and, thus, are not represented in any of the individual industry or industry group totals or area statistics appearing in the volumes. Information on Government-owned, privately-operated establishments is included throughout the statistical tables in the appropriate 4-digit industry on the same basis as privately-owned and operated plants.

## 5. The New Standard Industrial Classification

A revised edition of the SIC Manual was issued in 1957. In this revision extensive modifications were made in the manufacturing sector. Each establishment report processed in the 1958 Census of Manufactures was classified in accordance with both the old and the new SIC. The preliminary reports of the 1958 Census were tabulated on the old SIC. The final reports and volumes are published on the new SIC. Among the analyses made was a "bridge" tabulation showing the disposition of each "old" industry in terms of the "new" industries and, conversely, the composition of each new industry in terms of the old industries. These "bridge" tabulations are included as Appendix C in all bound volumes of the 1958 Census of Manufactures. In addition, for industries where the classification revision was extensive, data from the "bridge" tabulations are



included as table 1A in the Industry Statistics Volume and are discussed in the industry descriptions and definitions that precede the tables.

Historical information is unavailable for many industries because of the SIC revision. Where comparable 1954 data are shown for the revised SIC industries in the published tables, they were derived from previously published information. It was not possible to reclassify individual establishment reports to derive comparable historical data for all industries. In some instances, the 1954 data shown are substantially comparable and the minor elements of noncomparability are explained in footnotes and in industry texts. Appendix B contains further information on this subject.

It should be noted that extensive revisions of industry definitions, as occurred between the 1945 and 1957 editions of the SIC, may affect totals for industries which are not changed in definition. This may best be illustrated by the following two examples: Consider the case of an establishment with 60 percent of its output in Industry A and 40 percent of its output in Industry B. In a revision of industry definitions, B may be unchanged but Industry A may be separated into two new industries. Call the new Industries C and D. Assume that the hypothetical establishment on the new SIC produces 40 percent in B, 30 percent in C, and 30 percent in D. Such an establishment would be classified in Industry A on the old SIC and in Industry B on the new SIC. This occurs in spite of the fact that Industry B is conceptually unchanged. A reverse situation may also occur. Assume Industries X, Y, and Z on the old SIC, with Y and Z collapsed into new Industry W and Industry X unchanged. An establishment with output of 45 percent in X, 25 percent in Y, and 30 percent in Z would be classified in X on the old SIC. On the new SIC, the YZ combination into W would make it the primary product so that the establishment would be in the new industry W. In such a situation, the old industry X, unchanged in any way in its definition, loses an establishment.

A summary of the comparability, in terms of new SIC classification, at the 2-, 3-, and 4-digit levels is shown in table B.

## 6. Definition of Establishment

The census of manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a report for each location; also, companies engaged in distinctly different lines of activity at one location are required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size. There are relatively few cases of this type. Census tabulations of establishment reports, therefore, differ substantially from those prepared on a company basis, i.e., from consolidated reports which not only combine activities at different locations (thereby eliminating interplant transfers) but also include the nonmanufacturing activities of companies primarily engaged in manufacturing. Census figures will also differ to some extent from other tabulations based on establishment reports where the

TABLE B.--SUMMARY OF COMPARABILITY OF INDUSTRIES  
BETWEEN OLD AND NEW SIC

Category	2-digit	3-digit	4-digit
	Number of industries		
Fully comparable.....	5	77	267
Directly.....	5	67	233
By combination.....	0	10	34
Substantially comparable (ap- proximately within 4%).....	9	29	59
Directly.....	9	19	41
By combination.....	0	10	18
Noncomparable (more than 4%)...	7	43	100
Total.....	21	149	426
Category	Employment (in millions)		
	2-digit	3-digit	4-digit
Fully comparable.....	2.4	5.7	8.0
Directly.....	2.4	4.6	6.6
By combination.....	.....	1.1	1.4
Substantially comparable (ap- proximately within 4%).....	8.4	5.4	3.4
Directly.....	8.4	3.8	2.5
By combination.....	.....	1.6	.9
Noncomparable (more than 4%)...	4.6	4.3	4.0
Total.....	15.4	15.4	15.4

definition of an establishment as to location and line of activity is not so rigidly applied.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not of serious proportion and even if feasible, the filing of separate reports would not be warranted as a practical matter. However, there are a number of plant locations at which 100 or more employees are engaged in each of two or more distinct lines of manufacturing as defined in the SIC. The Census Bureau requested separate reports in such instances in the 1958 Census, pointing out to the respondent that a limited amount of proration or estimating was acceptable in the preparation of such reports. For the most part, the effort was successful, particularly in the case of very large operations where failure to "split out" the different activities would have significantly distorted the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines by many of the same employees, and could not be distinguished sufficiently in the companies' records to provide establishment-type reporting. The extent to which such separations could not be achieved combined with the overlap contributed by the smaller plants (those with less than 100 employees) is shown for each industry in tables 5A and 5B of the appropriate chapter of Volume II, Industry Statistics.

In 1958, as in earlier years, a minimum size limit was set for including establishments in the census. Reports were required from all establishments employing one or more persons at any time during the census year. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value



of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

A special study of manufacturing plants with no employees in 1958 was made to analyze the amount of manufacturing activity conducted by these very small establishments. The study was made from a sample of Internal Revenue Service income tax returns by individuals (Form 1040, Schedule C) and partnership returns (Form 1065) for the year 1958. The income tax returns in the sample were coded to obtain those engaged in manufacturing activity and then checked against Bureau of the Census and BOASI records to isolate those with no paid employment. The results of this study are shown in table C. It will be noted that there were over 50,000 manufacturing establishments in this category in 1958, but these establishments had only about one-quarter of one percent of the total value of shipments of all manufacturing.

TABLE C.--MANUFACTURING PLANTS WITH NO EMPLOYEES: 1958

Code	Major industry group	Estimated number of establishments <sup>1</sup>	Estimated total receipts <sup>1</sup> (million \$)
.....	Total.....	51,800	637
20	Food and kindred products	2,700	70
23	Apparel and related products.....	1,700	56
24	Lumber and wood products	13,600	116
25	Furniture and fixtures...	3,500	29
27	Printing and publishing..	11,500	104
32	Stone, clay and glass products.....	1,600	32
34	Fabricated metal products	1,500	46
35	Machinery, except electrical.....	6,500	59
39	Miscellaneous manufacturing.....	4,400	50
.....	All other groups.....	4,900	75

<sup>1</sup>In addition to possible error due to sampling, these estimates (particularly for number of establishments) are subject to considerable understatement because of limitations in classifying very small establishments as to whether they belong in or out of the manufacturing universe.

## 7. Industry Classification of Establishments

Each of the establishments covered in the census was classified in one of approximately 430 manufacturing industries in accordance with the industry definitions embodied in the SIC system. Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a more or less closely related group of products. The product groupings from which industry classifications are derived are based on such considerations as whether they are typically produced by the same establishment, similarity of manufacturing processes, types of material used, types of customers, and the like. The group of products assigned to an industry is said to be "primary" to that industry. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. In a few instances, however, the industry classification of an establishment is deter-

mined not only by the products it makes but also by the processes employed in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it is rare for all the establishments in an industry to specialize to this extent. The general statistics (employment, inventories, value added by manufacture, etc.) shown for an industry, therefore, reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. For this reason, in relating the industry statistics (tables 1-4 in the Industry Volume) to the product statistics (table 6) showing shipments by all industries of the primary products of that industry, the composition of the industry's output as shown in table 5 should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios which are computed from transition tables 5A and 5B of the Industry Volume. The first of these ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the industry to total shipments of such products by all manufacturing industries.

The primary product specialization ratio measures the homogeneity of the industry in terms of end products. However, in many industries, individual establishments use a great variety of processes and materials to make the products falling into a single industry classification; e.g., industries such as toys, photographic equipment, and scientific instruments. Even where the process of manufacture tends to be relatively similar because the end products are narrowly defined, the processes carried on by particular establishments producing the end product may be markedly different. For example, in the refrigeration industry, there are instances of almost complete integration in which the production of the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly are all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In many industries, the 1958 Census provides separate statistics on the production of intermediate commodities made and used (assembled) in the same plant. In addition, plants producing products for use in other plants of the same company are combined in the industry totals together with plants producing identical products for commercial sale (i.e., for sale to other companies). For those industries where the former type of operation is of consequence, that fact is pointed out in the introductory text for the industry. Also, the nature of variations in types of processes used and the production of intermediate parts and components in the same plant is described for those industries in which such situations are especially significant. This practice has been followed for many censuses in pulp and paper, textile fibers, yarn and fabric, and certain chemical industries. In recent censuses, this approach was further enlarged to include captive casting facilities, and to show captive metal fabricating activities such as stamping facilities, machine shops, and the like for the entire metalworking area.

Differences in the integration of production processes, types of operations, and alternatives in type of materials



used should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and materials data.

Many small establishments reported no detailed product data but only enough information to permit coding them to a 4-digit old SIC industry. With the introduction of the new SIC system, a number of old SIC industries were split. The lack of separate information on the various products made by these establishments made it impossible to determine their appropriate new industry, and it, therefore, was necessary to assign them entirely to one of the resulting new industries. In two instances, industries 2541, 2542, and industries 2395 and 2396, these establishments were important enough to require that each of these pairs of industries be combined for publication purposes. In a few other industries, which are shown in table D, this problem affected the total establishment count and the number of establishments in the smaller size classes but usually had no appreciable effect on other statistics. For each set of industries enclosed by a bracket, the upper code number refers to the industry in which the establishments in question were classified, and other codes represent the industries in which some of these establishments would have been classified had they reported sufficient product detail. For all other industries whose definitions were revised by the new SIC, the effect of this problem was negligible.

TABLE D.--INDUSTRIES AFFECTED SUBSTANTIALLY BY MISCLASSIFICATION OF SMALL ESTABLISHMENTS RESULTING FROM REVISED INDUSTRY DEFINITIONS

New SIC code	Approximate data for potentially misclassified establishments		Total value of shipments of the specified industry (million \$)
	Number of establishments	Value of shipments (million \$)	
2092 } 2096 }	17	5	{ 1,081 1,239
2261 } 2262 } 2269 }	148	44	{ 686 211 158
2441 } 2442 } 2443 }	325	20	{ 236 93 30
2661 } 2643 }	44	4	{ 392 909
2761 } 2752 }	339	22	{ 406 1,342
3272 } 3271 }	1,063	79	{ 719 414
3441 } 3449 }	586	135	{ 1,901 917

## 8. Geographic Areas

(a) Census Divisions and Regions:--In order to present census data at a level between the United States total and those for the individual 48 States (Alaska and Hawaii did not achieve Statehood until 1959), the Census Bureau has used regional groupings for over a century. Since the 1909 Census of Manufactures, the present nine geographic

TABLE E.--VALUE ADDED BY MANUFACTURE ADJUSTED, BY DIVISION AND STATE, 1958

Divisions, regions, and states	Value Added by Manufacture Adjusted (Millions)	Percent
United States, Total	141,270	100.0
New England.....	10,438	7.4
Maine.....	638	0.5
New Hampshire.....	491	0.3
Vermont.....	236	0.2
Massachusetts.....	5,130	3.6
Rhode Island.....	754	0.5
Connecticut.....	3,189	2.3
Middle Atlantic.....	34,839	24.7
New York.....	15,892	11.2
New Jersey.....	7,499	5.3
Pennsylvania.....	11,448	8.1
East North Central.....	40,938	29.0
Ohio.....	11,473	8.1
Indiana.....	5,478	3.9
Illinois.....	11,664	8.3
Michigan.....	8,364	5.9
Wisconsin.....	3,960	2.8
West North Central.....	8,870	6.3
Minnesota.....	2,050	1.5
Iowa.....	1,684	1.2
Missouri.....	3,251	2.3
North Dakota.....	63	0.1
South Dakota.....	114	0.1
Nebraska.....	536	0.4
Kansas.....	1,171	0.8
South Atlantic.....	14,291	10.1
Delaware.....	420	0.3
Maryland.....	2,379	1.7
District of Columbia.....	198	0.1
Virginia.....	2,123	1.5
West Virginia.....	1,215	0.9
North Carolina.....	3,083	2.2
South Carolina.....	1,360	1.0
Georgia.....	2,102	1.5
Florida.....	1,411	1.0
East South Central.....	6,402	4.5
Kentucky.....	1,782	1.3
Tennessee.....	2,207	1.6
Alabama.....	1,771	1.3
Mississippi.....	642	0.5
West South Central.....	7,791	5.5
Arkansas.....	592	0.4
Louisiana.....	1,430	1.0
Oklahoma.....	725	0.5
Texas.....	5,045	3.6
Mountain.....	2,251	1.6
Montana.....	197	0.1
Idaho.....	255	0.2
Wyoming.....	63	0.1
Colorado.....	782	0.6
New Mexico.....	115	0.1
Arizona.....	360	0.3
Utah.....	412	0.3
Nevada.....	68	0.1
Pacific.....	15,437	10.9
Washington.....	2,167	1.5
Oregon.....	1,222	0.9
California.....	12,048	8.5

Note: Detailed figures may not add to the totals because of independent rounding.



divisions have been used. Beginning with the 1939 Census, the nine divisions were grouped further into four geographic regions; Northeast, South, North Central, and West.

Not only are these groupings convenient for the summary presentation of census data below the U. S. level, but they are essential to presenting a maximum of geographic information in Industry Volume table 2 for those individual industries in which application of the census disclosure law precludes the publication of individual State's data. (See the discussion in section 33, "Confidentiality of Data for Individual Companies.") The relative importance of manufacturing among the States and divisions is shown in table E.

(b) Standard Metropolitan Statistical Areas.--In addition to the legally constituted geographic units--States, counties, and cities--"all manufacturing" totals have been tabulated for the approximately 190 standard metropolitan statistical areas, while industry group (2- and 3-digit) statistics have been tabulated for areas with 40,000 to 190,000 manufacturing employees and industry data (2-, 3-, and 4-digit) for areas with more than 190,000 employees. These industry statistics for each area are presented in table 5 in the report for each State. There are about 70 areas with more than 40,000 employees.

Standard metropolitan statistical areas (SMSA's) are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U. S. Bureau of the Budget for general-purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns are regarded as the significant unit in this region of the country.

The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include one or two additional city names.

(c) Industrial counties.--In addition to industry statistics for SMSA's with 40,000 or more manufacturing employees, the Census of Manufactures presents data in table 6 of the State reports for each industry group (2- and 3-digit) in a county that had at least 500 manufacturing employees and would not result in disclosure of figures reported by individual companies.

(d) Cities of 10,000 Inhabitants or More.--As in 1954, summary totals are presented for individual cities having

10,000 inhabitants or more. The selection of cities for inclusion was made on the basis of the 1960 Census of Population which was taken as of April 1, 1960. No industry detail is shown for individual cities. Because of the precedence given to SMSA's and counties, most industry data for even large cities would necessarily be withheld from publication to avoid disclosure either directly or by subtraction from published county totals.

## 9. The Census Report Forms

Although only one report was required from each establishment in the 1958 Census of Manufactures, the diversity of manufacturing activities made it necessary to use over 200 different report forms to canvass the approximately 425 manufacturing industries. In order to obtain efficiently the data essential to the census in a manner consistent with considerations of cost and reportability by the respondent, it was decided to use "standard" forms, requiring full census detail only for those manufacturing plants above a given size in terms of number of employees. For the numerous smaller establishments, typically having less detailed records and representing a very minor portion of manufacturing output and employment, data requirements were limited to a relatively few key items on a series of short forms with different preprinted lists of product class items in the shipments inquiry. In a few industries, these small plants were typical and accounted for a substantial portion of the industry's totals in the aggregate. In such cases modified versions of short forms requesting additional items were used.

The size cut-off for short forms varied according to size composition of the industry so that, while the forms covered a small percentage of each industry's aggregates (employment, etc.), they did represent a much higher proportion of number of establishments. The cut-off generally ranged from 4 to 10 employees.

Using the administrative records of the Bureau of Old Age and Survivors Insurance in conjunction with existing Bureau of the Census records, it was possible to determine correctly, in most cases, the type of form each manufacturing establishment should receive.

Information was obtained on all 1958 forms regarding the physical location, Social Security employer identification number, company affiliation, and legal form of ownership. These facts not only provided for completeness-of-coverage control in the census (see section 11, Development of the Mailing List), but also permitted the classification of each establishment by geographic location and type of legal organization.

(a) Standard Forms.--Each standard form called for virtually the same general items--employment, payrolls, man-hours, materials costs, detailed fuels and electric energy costs, inventories, and capital expenditures--regardless of the industry or industry group. However, the forms differed in that detailed inquiries on the quantity and value of individual products shipped and individual materials consumed as well as miscellaneous inquiries such as types of operation and equipment were adapted to the individual industry or industry group. Almost 200 different forms were needed to allow for these adaptations. (A sample form appears in Appendix D.)

(b) General Short Forms.--These forms, designed for small establishments as noted above, were an abbreviated version of the standard forms and requested limited general



and product information. For example, only total employment and payroll figures were requested, without detail by functional class (i.e., production workers and all other employees); production-worker man-hours and wages were not required on short forms. Instead of detailed information on individual products (7-digits) the short forms requested value of shipments mainly in terms of product classes (5-digit). There were 20 different short forms each covering roughly a 2-digit major industry group.

(c) Modified Short Forms.--In manufacturing as a whole and in most industries, very small establishments account for only a minor part of employment or production. However, for a few industries, small plants constitute a significant proportion of the total. For these industries, modified short forms were used, with the same establishment type inquiries (i.e., employment, inventories, etc.) as appeared on the general short form. In the materials and product sections of these forms, however, greater detail was required, approaching the materials and product sections of the standard form counterparts for these industries. The industries covered in this manner were: Logging and Sawmills, Concrete Products, Dairy Products, and several printing and publishing industries.

(d) Form for Manufacturing Plants Under Construction During 1958.--This form was designed to obtain data on capital expenditures by manufacturing firms for new plants under construction during 1958 but not in operation by the end of the year. A regular census report of the type described in (a)-(c) above was not obtained from such establishments. The new plant form was sent to the 1,600 largest manufacturing firms, and to a sample of 1,700 other manufacturing companies. (For a discussion of the purpose and use of this form, see section 26, "Expenditures for Plant and Equipment.")

(e) Form for Separate Central Administrative Offices and Auxiliaries of Manufacturing Companies.--Separate reports for each central administrative office and auxiliary unit (e.g., storage warehouses, research laboratories, garages, repair shops etc.), which served the manufacturing establishments of the company were obtained if they were at locations different from the establishments served or if they serviced more than one manufacturing establishment. The report form included inquiries on payrolls, employment, inventories, sales and warehouse storage space. In the manufacturing sector there were approximately 4,500 such establishments in 1958. They accounted for about 600 thousand employees with payrolls of about \$4.5 billion, which represent 3.8 percent and 5.7 percent, respectively, of the totals for all manufacturing.

The employment, payroll, and other related data for separate administrative offices and auxiliaries are not included in the operating manufacturing establishment totals, either for individual industries or industry groups. The employment and payrolls of such administrative offices and auxiliaries are, however, shown separately and also included in the "all manufacturing" totals in selected tables in the final volumes; e.g., table 1 of each State report.

#### 10. Supplemental Surveys Conducted as Part of the Census of Manufactures

(a) Distribution of Manufacturers' Sales by Class of Customer.--Part of the 1958 Census of Manufactures consisted of a survey designed to collect data on the distribution of manufacturers' sales by class of customer. This survey was conducted on a sample basis. The sample panel of approximately 50,000 establishments reporting in the

Annual Surveys of Manufactures for 1955-1957 was used in this survey. The reporting for the distribution of sales survey, however, was on a company basis rather than an establishment basis. The results of this survey have been published in separate subject reports (Series MC58(1)-10.20-39) and also as a chapter in Volume I, Summary Statistics.

(b) Supplementary Employee Costs, Cost of Maintenance and Repair, Insurance, Rent, Taxes, and Depreciation and Book Value of Depreciable Assets by Industry: 1957.--Another part of the census program consisted of a survey of supplementary employee costs, cost of maintenance and repair, insurance, rent, taxes, and depreciation and book value of depreciable assets. This survey covered the year 1957 and the Annual Survey of Manufactures sample panel was used. Results of this survey by industry and State have been published in separate reports (Series MC58(1)-9) and are also included as a chapter in Volume I, Summary Statistics.

(c) Industrial Water Use for 1959.--As a supplementary inquiry of the 1958 Census, approximately 11,000 manufacturing establishments were canvassed regarding water consumption in 1959. The panel of reporters comprised selected respondents who reported a consumption of 20 million gallons or more of water in 1954 when the first survey of industrial water use was conducted, and others based on industry and employment size. In addition to the items covered in the 1954 survey, the 1959 report provides the following additional information: (1) water intake data differentiated between quantities for steam generation and for other condensing and cooling purposes; (2) a three-way breakdown showing the amount of water discharged, by point of discharge; (3) information indicating whether the discharged water was treated prior to discharge; and (4) information relating to the purposes for which recirculated or reused water was utilized. Results of this survey by industry, State, and Water Use Regions have been published in a separate report (Series MC58(1)-11) and also appear as a chapter in Volume I, Summary Statistics.

#### 11. Development of the Mailing List

The basic mailing list for the 1958 Censuses of Manufactures, Business, and Mineral Industries comprised all employers (except farmers, State and local governments, and other ineligible classes) who made one or more quarterly payments in 1958 under the Federal Insurance Contributions Act. The list, which was obtained from the Internal Revenue Service (IRS) of the Treasury Department, contained all of the information necessary for mailing the census questionnaires except the industry classification of the employer.

The IRS list was matched with various lists containing the industry code number (SIC) which was required for selection of the appropriate census report form. The matching operations, which were done on electronic equipment, were made possible by the fact that both the IRS list and the classified lists contained the Social Security employer identification (EI) number.

While the IRS list was the basic control mechanism, the 1957 Annual Survey of Manufactures was the principal device for mailing to large companies. This annual survey included all large manufacturing establishments (i.e., those with 100 or more employees), which in 1954 accounted for 74 percent of total employment. For smaller establishments, the principal source of industry codes was



the "employer master file" of the Bureau of Old-Age and Survivors Insurance (BOASI) of the Social Security Administration. The latter file was supplemented by independent lists for two industrial areas, apparel jobbers and milk bottlers. (The apparel jobber information came from a census commodity survey; the dairy list from State government sources.)

Further mailing list supplementation was necessary for "multiunit" companies--those with more than one manufacturing, mining or business establishment. A pre-canvass was conducted by use of Forms NCX-1A and NCX-1B. Form NCX-1A was sent to about 10,000 large companies and called for a listing of subsidiary corporations and of each establishment owned by the parent company or its subsidiaries. Form NCX-1B was sent to about 40,000 smaller firms. These forms differed only in that the NCX-1A prelisted all known establishments. The NCX-1B, which went to firms with less than 5 establishments in 1954, did not prelist the establishments. The pre-canvass was performed jointly for the Censuses of Manufactures, Business, and Mineral Industries.

A general purpose form, NCX-3, was used for concerns having EI numbers on the IRS list which did not match the classified lists, and in cases where the EI numbers matched but the classified lists did not provide sufficient information for selection of a specific questionnaire. The industry code of employers thus canvassed was assigned after receipt of the NCX-3 on the basis of the information reported on that form. When the establishment filing the NCX-3 was large or where otherwise necessary, additional information was obtained to complete the appropriate inquiries for the industry to which the establishment was assigned.

In the 1958 Census the report forms were distributed and returned by mail. Personal or telephone contact was made only when the manufacturer failed to respond to the initial request or to followup letters. The mailing, collection, check-in control, screening, coding, routine editing, and punching were performed at the Bureau's operations office in Jeffersonville, Ind. Subsequent work was done in Washington, D. C.

## 12. Completeness of Coverage

Since the 1958 mailing list was considered to be complete, no field coverage check was conducted. However, at various stages of processing of the reports, coverage checks were conducted with the aim of determining whether establishments on the original mailing list were represented in the processing stage under scrutiny.

In the process of review of the results, checks were also made to assure that all significant establishments were included in the tabulated totals. Results of tabulations for industry-State cells, 7-digit products, county-industry groups, and cities were compared with similar data from the 1954 Census and statistics compiled by other agencies. Where deemed appropriate, establishment by establishment comparisons were made between 1954 and 1958. For example, when a plant was tabulated in a particular city in the 1954 Census and was not in the initial tabulation for that city in 1958, a thorough search was made to assure that a report for the plant was received and correctly processed in the 1958 Census. In addition, the mailing list of small establishments derived from the IRS-OASI records obtained by the Census Bureau assured virtually complete coverage of small establishments.

## 13. Manufacturing Employees--Classifications Used

a. All Employees.--The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or received pay for any part of the pay period ended nearest the 15th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Excluded are members of the armed forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are, however, excluded from the total.

Production and Related Workers.--Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plants' own use (e.g., power plant), record keeping, and other services closely associated with these production operations at the establishment covered by the report are included. Supervisory employees above the working foreman level are excluded from this category.

All Other Employees.--Represents nonproduction personnel of the manufacturing establishment, including those engaged in the following activities: factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

(b) Central Administrative Office and Auxiliary Unit Employees.--Respondents were asked to file separate reports for any central administrative offices or auxiliary units at a different location from the establishments served or at the same location as one of these establishments but not operated as an integral part thereof and administered or served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. Employment and payroll totals for the central administrative offices and auxiliaries are included in the 2-digit summary chapter of the Industry Volume and in some tables of the Area and Summary Volumes.

## 14. Manufacturing Employees--Average Employment

The 1958 report forms requested employment figures for "production and related workers" for four selected pay periods (i.e., production worker mid-month employment in March, May, August, and November). For "all other employees" only a mid-March figure was requested. Thus the "annual average" is composed of an average of the four monthly figures for the "production workers" plus the March figure for "all other employees."



This approach was initiated in the intercensal annual survey of manufactures to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods approximates very closely the average employment for the year that would be obtained from the 12 pay periods for almost all industries.

In the employment data shown in this report, the four-month average is shown for all industries. For a few highly seasonal industries, figures on production workers were collected for all twelve months and are shown in statistics for those industries.

#### 15. Manufacturing Employees--Payrolls

This total includes the gross earnings paid in the calendar year 1958 to all employees on the payroll of operating manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to the proprietor or partners of unincorporated businesses. Also excluded are payments to members of armed forces and pensioners carried on the active payroll of manufacturing establishments.

The 1958 Census definition of payrolls, identical to that recommended to all Federal statistical agencies by the Bureau of the Budget, is also the same as that used in 1954. It should be noted that this definition does not include employers' Social Security contributions, or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workmen's compensation.

As in the case of employment figures, the payrolls of separate central administrative offices and auxiliary units of multiunit companies are not included in the totals for individual industries or industry groups but are shown in table 1 of each State report and in other selected tables in the Area and Summary Volumes.

#### 16. Production and Related Worker Man-Hours

This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours worked or paid for at the plant including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported. The man-hours figures issued in this report differ from those published monthly by the Bureau of Labor Statistics. The BLS data cover all hours paid for, whether or not worked, and relate only to the payroll period ending nearest the middle of each month.

Man-hours were generally well reported except in the case of small establishments which, as in the past censuses, experienced some difficulty in distinguishing between production and other types of workers, and except for some industries, like apparel, where work is commonly performed on a piece rate basis. Where man-hours were not reported and it was not feasible to obtain the information by correspondence, the data were estimated. Because this estimating was largely confined to

small establishments, there is no significant qualification to the validity of overall industry and geographic area totals for man-hours, except for sawmills and a few other industries characterized by small establishments. However, the man-hour figures for establishments with fewer than 10 employees, shown in the size of establishment tables, should be interpreted with this factor in mind.

#### 17. Cost of Materials, Etc., Consumed

An inquiry on the report forms requested information on the cost of materials, supplies, components, semi-finished goods, fuels, and electric energy actually consumed or put into production during the year, and the cost of products purchased for resale by each manufacturing establishment, whether purchased, withdrawn from inventories, or received from other establishments of the company. "Cost" refers to direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring these materials.

To arrive at the industry total "cost of materials, etc.," separate figures were obtained for (a) the total delivered cost of all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production in 1958 or used as operating supplies and for repair and maintenance during that year; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; (d) the cost of work done by others on materials or parts furnished by manufacturing establishments (contract work); (e) cost of products bought and resold in the same condition. The total excludes the cost of services used, such as advertising, insurance, telephone, etc., and research, developmental, and consulting services of other establishments; it also excludes overhead costs, such as depreciation charges, rent, interest, royalties, etc.; it excludes materials, machinery and equipment used in plant expansion or capitalized repairs which are chargeable to fixed assets accounts. It should be noted that the inclusion of the cost of goods purchased for resale in the "total cost of materials" is a change in procedure from previous censuses.

In the case of costs reported for materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), the respondent was asked to approximate the commercial value of these materials, plus freight and other direct handling charges. For some industries in which there was no satisfactory market counterpart of the transferred material, special instructions were necessary. The respondent was also asked, where possible, to check that such approximated costs exceeded the value of shipments reported by the company's plant producing and transferring the goods only by the addition of freight and other direct charges.

It should be noted that the cost of fuel consumed under (c), above, does not include fuel used as a material in the manufacturing process; for example, coal used in the production of coke. Such costs were included with other materials costs in category (a), above.

A summation of industry cost of materials figures to industry group totals would result in large and unknown amounts of duplication, owing to the addition of costs reported by related industries engaged in successive fabrication stages in the production of finished manufactured prod-



ucts. For this reason, cost of materials figures are not shown at the industry group (3-digit) and major industry group (2-digit) levels. With some important exceptions (such as "refrigeration machinery," "radios and television receiving sets," and "motor vehicles and parts"), this duplication is not significant within individual industries.

#### 18. Individual Materials Consumed

In addition to the total cost of materials, fuels, etc., which every establishment was required to report, quantity and cost information was collected on the use of 551 specific materials. Consumption information was also collected for an additional 320 items as part of the product sections of the report forms. The latter group typically consisted of items which were produced and also consumed by the producing establishments or by other establishments in the same industry. For example, many textile plants produced yarns and then used them in weaving or knitting fabrics. Also, in the steel industry, data on receipts and consumption of mill shapes were obtained as part of the inquiry calling for the production and shipments of these shapes.

Materials were covered in two ways. For 293 materials, every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least 90 percent of the total consumption by manufacturing industries. For the remaining 258 materials, information on consumption was obtained on a more limited basis, generally only from those industries in which the materials were an important part of total material costs. Of the 320 products for which consumption information was obtained, industries accounting for 90 percent or more of manufacturing consumption were covered for about 200 items.

Because American industry uses an enormous variety of materials, the number of materials for which "complete" coverage consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was, therefore, based on the following criteria:

- (1) The importance of the material as measured by the total value of United States consumption of the material;
- (2) The percentage of total consumption accounted for by manufacturing establishments;
- (3) The availability of consumption information from manufacturers' records; and
- (4) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited coverage basis were chosen not only because they constituted important inputs for particular industries but, frequently, because they provided necessary classification information and other indirect measures. For example, an industry's production was of a heterogeneous character and materials consumed afforded a better measure of physical output than could be obtained from available production data.

Tabulated data on the materials consumed in an industry are usually shown in the report for that industry. In addition, for the 293 materials covered on a complete basis (see above), consumption by all industries and, frequently, by States is shown in Volume I. The data on materials consumed relate generally to the quantity and cost

of materials purchased from other companies or obtained from other plants of the same company. However, for selected materials which are also importantly produced for use within the same establishment, information was requested on such captive production in quantity terms only.

Some undercoverage exists in the statistics for most individual materials. This undercoverage results from the fact that:

(1) Individual materials consumption information was obtained only from establishments using one of the Census of Manufactures long forms or one of the modified short forms. For the most part, therefore, plants with a very small number of employees are not represented in these statistics.

(2) Establishments consuming less than a specified amount of a material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000.

The use of such cut-offs, as well as the use of short forms, is not believed to have had a significant effect on the totals for most materials. However, for industries where a sizeable proportion of the activity is accounted for by small establishments or where a specified material is used in relatively small quantities, the above limitations may be of some consequence.

#### 19. Value of Shipments

The amounts under "value of shipments" both for industries and for individual products or classes of products are the received or receivable net selling values, f.o.b. plant, after discounts and allowances, and excluding freight charges and excise taxes. However, where the products of an industry are customarily delivered by the manufacturing establishments (bakery products, fluid milk, and soft drinks, for example) the value of shipments is based on the delivered price of the goods rather than the f.o.b. plant price. For the tobacco and other industries where excise taxes are important, such taxes are covered separately.

Under the general heading of shipments, manufacturers were asked to include all items made by or for each establishment from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. Also included were receipts for contract work and for such miscellaneous activities as sale of scrap and refuse, installation work by manufacturing plant employees, research and development work, and repair work. The net selling value of products made in one plant on a contract basis from materials owned by others was reported by the plant providing the materials. The value of products bought and resold without further processing (merchandising) was reported separately and is included in the value of shipments totals for each industry but not for individual products or classes of products. The inclusion of resales in total value of shipments is a change in procedure from earlier censuses. The 1954 data shown in these volumes and reports have been revised to include the value of resales.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company (i.e., other manufacturing plants, separate sales branches, or retail stores) at "the nearest approximation to corresponding commercial values, f.o.b. plant, and not the cost of production."



The value of shipments for the industry is usually different from the value of shipments of the group of products regarded as "primary" to the industry. The value of shipments of primary products of an industry (tables 5 and 6 of Volume II, Industry Statistics) includes the value of such products reported by all producers, including those establishments in other industries which make these items as "secondary" products. However, that value does not include the value of secondary products of establishments classified in the industry, or receipts of such establishments for contract work and other miscellaneous activities. The general use of shipments as the basis for valuing the output of manufacturing industries differs from the practice for all censuses except those for 1954, 1947, and 1929. The selection of shipments in recent censuses was made in order to facilitate direct reporting from records of sales, shipments, or billings. Value of shipments for 1958 and 1954 may, however, be directly compared with value of products for earlier years. In the first place, it is likely that in earlier censuses many manufacturers valued their output in terms of shipments even though value of production was requested. Secondly, the changes in the value of finished goods inventories for most industries are of minor importance. The "value of production" was requested in the 1958 Census for a relatively few industries where such records are generally maintained in place of shipment figures and reporting of the latter would have involved undue difficulty for the respondent. These instances are noted in the tables and descriptive text for the industries involved.

## 20. Individual Products

For 1958, as for 1954, data were collected for almost all industries on the quantity and value of individual products shipped. In the 1958 Census, information was collected on the output of approximately 7,500 individual product items. The term "product" as used in the census represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. In some cases it may be much more detailed and frequently it is more aggregative. For example, automotive gasoline was reported as a single item. On the other hand, pharmaceutical preparations were distributed into nearly 100 items.

The list of products for which separate information was collected was prepared after consultation with industry and Government representatives. Comparability with previous figures was given considerable weight in the selection of product categories and comparable 1954 information is presented for most products at some level of detail.

Typically, quantity and value of shipments information was collected. In some cases quantity was not significant or could not be reported by manufacturers. For these products, only value of shipments was collected. Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments are transferred to other plants of the same company, separate information on interplant transfers was also collected. Moreover, for products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, information was collected on total production and often consumption of products produced in the same establishment. Generally, the information on production was also collected

for products where significant differences between total production and total shipments sometimes occur. Other measures of output of products, such as value of work done for products with long production cycles, were used when appropriate and feasible.

## 21. Classes of Products

For the purpose of summarizing the product information, the separate products were aggregated into classes of products which were in turn grouped into all primary products of each industry. The code structure used is a 7-digit number for the individual product, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry.

The 7,500 product items in the 1958 Census were grouped into approximately 1,100 separate classes. Products were grouped into product classes on the basis of general similarity of manufacturing processes, types of material used, and the like. However, the grouping of products was affected by the economic significance of the class and in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

The product class was developed in order to provide an intermediate level of classification for output information. Because of the reduced number of separate items and the increased number of companies producing the class of products, additional tabulations of output information, e.g., product class by State (table 6B of the Industry Volume) are feasible more frequently than would be possible for individual products. The increased number of companies minimizes the problem of protection against disclosure of information pertaining to individual companies.

## 22. Duplication in Cost of Materials and Value of Products

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as motor vehicles and parts, this duplication is not significant within individual industries but arises from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the over-all extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census. Because of the unknown and varying amounts of duplication contained in cost of materials and value of products, these figures are not shown for groups of industries in this census and are also eliminated for a small number of individual industries containing serious amounts of duplication.

Even where no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs to value of shipments, both among industries and within the same industry.



### 23. Value Added by Manufacture

The standard formula for deriving value added by manufacture in 1958 was modified from the one used for earlier censuses. During the earlier period, the measure was obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. This item is referred to as unadjusted value added when it appears in the tables in this publication. For 1958, this measure of value added was adjusted by taking into account the following items: (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly) plus (b) the net change in finished goods and work-in-process inventories between the beginning and end of the year. The resulting figure is the adjusted value added by manufacture.

The adjusted value added is given greater prominence in reports of the 1958 Census than in earlier censuses. In future Census publications, the concept of unadjusted value added will be dropped. The adjusted value added is superior because it is more comprehensive as an approximation of the net production of goods and services during the period covered by the report. Under the earlier concept, the value added in merchandising was omitted on the grounds that it did not accrue as a consequence of manufacturing functions. Under the new (adjusted) concept, the measurement of all activities of establishments defined as primarily manufacturing is accepted as the objective.

Value added avoids the duplication in the value of shipments figure which results from the use of products of some establishments as materials by others. Consequently, it is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

### 24. Value Added and National Income

Value added by manufacture should not be confused with "national income originating in manufacturing" as presented in the national income by industrial origin estimates compiled by the Office of Business Economics, Department of Commerce. The latter measure is the sum of factor costs incurred by an industry in production and is, therefore, a more "net" concept of value added than that used in the Census of Manufactures. "Income originating" excludes, in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc.

In part, the national income originating estimates are prepared from company rather than establishment data. This will result in the inclusion of some part of the net value added by nonmanufacturing establishments of companies classified as being primarily manufacturing, and conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily nonmanufacturing. It is believed that for manufacturing as a whole the net effect increases income originating. (In fact, in the Petroleum and Coal Prod-

ucts major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one major industry group in which O.B.E. "income originating" exceeds "value added by manufacture" used by the Bureau of the Census.)

The figures shown in Table F should be reviewed in the light of these comments.

TABLE F.--COMPARISON OF NATIONAL INCOME ORIGINATING IN MANUFACTURING AND VALUE ADDED BY MANUFACTURE

(In millions of dollars)

Period	National income originating in manufacturing <sup>1</sup>	Value added by manufacture (adjusted)	Col. (1) divided by Col. (2)
	(1)	(2)	(3)
1958.....	103,817	141,270	.73
1957.....	112,476	147,838	.76
1956.....	109,268	144,909	.75
1954.....	91,057	117,031	.78
1947.....	58,717	<sup>2</sup> 74,290	.79
1939.....	17,925	24,487	.73
1929.....	21,888	30,591	.72

<sup>1</sup>Source: U. S. Income and Output and July 1961 Survey of Current Business.

<sup>2</sup>1947 and earlier figures are unadjusted value added.

Form MC-D11, Selected Costs and Assets of Manufacturing Establishments, collected data on some of the cost items which account for the difference between value added as defined in the Census of Manufactures and national income originating in manufacturing. The diagram below shows some significant facts about the conceptual difference between these measures of manufacturing activity.

It will be noted that value added as defined by Census procedures for 1957 was \$147.8 billion or \$35.3 billion greater than the estimate of national income originating in manufacturing in 1957. The MC-D11 survey for 1957 conducted by the Census Bureau compiled data on several cost items not deducted from value added. These costs amounted to \$15.4 billion in 1957. There is an additional \$19.9 billion gap between national income and value added which largely consists of expenditures for advertising, publicity, legal services, travel and communications, royalty payments, contract research, bad debts, entertainment, other professional services, and other expense items. Many of these are company-type expenses and cannot be reported on an establishment basis by multiestablishment firms. In addition, transfer payments, gifts, scholarships, and similar expenditures are not factor costs and contribute to the gap, since such charges are not deducted from value added.

### 25. Inventories

The value of beginning-of-year and end-of-year inventories, respectively, held by each manufacturing establishment was obtained in the 1958 Census. Separate inventory figures were requested for: (1) finished products; (2) work-in-process; and (3) materials, supplies, fuel, and other inventories.



1957 Comparative Statistics  
(All figures in billions of dollars)

National income and gross product in manufacturing			Value added as defined for the Census and Annual Survey of Manufactures		
National income:			Payroll of operating establishments	= 76.4	147.8
Payroll	= 80.6	} 112.5	Supplements from MC-D11 <sup>2</sup>	= 6.0	
Supplements to payroll	= 7.2		Payroll in CAO and other auxiliary establishments	= 4.2	
Total payroll	= 87.9		Total	= 86.6	
Other income	= 24.6				
+ }					
Indirect taxes, transfer payments, and capital consumption charges less subsidies		} Estimate not available	Taxes covered on MC-D11	= 1.5	
			Depreciation on MC-D11	= 7.3	
			Cost items in value added, not in GNP:		
			Covered in MC-D11		
			Maintenance and repair services purchased <sup>1</sup> from other firms	= 4.5	
			Insurance	= .7	
			Rents	= 1.4	
			Not covered in MC-D11:		
			Advertising, legal, and other professional services, communications, royalties and patent fees, travel costs, publicity, transfer payments, etc.	} Estimate not available	

<sup>1</sup>Estimates of GNP by industrial sector are not made by the National Income Division of the Office of Business Economics.

<sup>2</sup>MC-D11 was a survey of selected costs in 1957.

<sup>3</sup>Excludes supplements for employees at CAO's and auxiliaries.

Respondents were asked to report their inventories at approximate current costs if feasible; otherwise "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.) the definition of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerably greater significance.

In using inventory data by stage of fabrication for all industries and at the two-digit industry level the following should be noted. An item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries. Further, the total finished goods inventory for "all manufacturing" includes items that are not finished manufactured products.

For a few industries in the food group there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are usually stored under controlled conditions, and the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished goods inventories or as work-in-process while in storage.

In all of these industries substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

## 26. Expenditures for Plant and Equipment

In the 1958 Census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for new machinery and equipment purchases, that were chargeable to fixed-asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expense. Also excluded are expenditures for land and expenditures made by owners of plants and equipment leased to reporting manufacturers.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) new structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the United States Government). The publication of statistics on capital expenditures is generally confined to new plant and equipment (items (a) and (b) above).



In the 1947 Census and the 1949 and 1950 Annual Surveys, data on capital expenditures related only to manufacturing establishments that were in operation at some time during the report year. They did not include expenditures incurred during the year for constructing and equipping new plants not yet in operation, or for renovating idle establishments. To close this statistical gap, such supplemental capital expenditures data for plants under construction were obtained in the 1951 Annual Survey and in each succeeding annual survey of manufactures and census. The "under construction" survey included approximately 1,600 large manufacturing companies. In addition, reports were obtained from about 1,700 smaller companies, selected as a representative sample of all manufacturing concerns. The relative contribution of these smaller companies to the "under construction" expenditures is ordinarily less than one-tenth of the estimated total.

The capital expenditures figures in the Industry and Area Statistics Volumes do not cover idle plants and plants under construction that were not put into operation within the year 1958. Data on this type of capital outlay are shown by industry group and by State in the Summary Statistics Volume.

The census figures on capital expenditures differ from those estimates published from the Office of Business Economics-Securities and Exchange Commission sample survey. In addition to the sampling variation present in the latter data, a major source of difference is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series on expenditures, covers all establishments (manufacturing and nonmanufacturing) of companies classified as manufacturing concerns. This factor is particularly important in the petroleum industry, where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The OBE-SEC series excludes from the totals for manufacturing industries firms which operate manufacturing establishments but are primarily nonmanufacturing companies. Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

## 27. Fuels and Electric Energy

Detailed statistics on the use of fuels by manufacturing establishments for power and heat were collected in the 1958 Census. The data were not available in corrected form in time for inclusion in the individual industry reports which constitute the Industry Statistics Volume; they do appear as a separate chapter in the Summary Volume. Separate figures were collected for coal, coke, fuel oil, gas, and "other fuels." Except for "other fuels," both quantity and cost data were collected for each of the fuels named. For "other fuels," only cost was collected. The fuels reported in this inquiry exclude those used by manufacturing establishments as a raw material. For example, coal consumed in the manufacture of coke is excluded from the fuel statistics.

Experience, based on past censuses, indicates that practically all of the information compiled on detailed fuels is reported by relatively large establishments in specific industries. Therefore, in the 1958 Census the detailed inquiries on fuel were not directed to (a) establishments classified in approximately 250 of the 450 industries (old SIC), of which 57 of the 250 industries are in the printing

and apparel groups, and (b) establishments reporting on short forms. In addition, establishments in the fuel reporting industries were requested to report detailed fuel data only where the 1958 fuel expenditure equalled or exceeded \$5,000. As a result of these limitations, it is estimated that the 1958 detailed fuel data, shown in the Summary Statistics Volume, by Industry and State, represent a coverage of approximately 94 percent of the total as reported in 1954.

Data were also collected on the use of electric energy in manufacturing. Separate figures were collected for the quantity and cost of electric energy purchased, the quantity of electric energy generated, and the quantity and value of electric energy sold. All of these data are shown in the Summary Volume chapter on Fuels and Electric Energy. Only the cost of purchased electric energy is contained in the Industry Volume (table 3).

## 28. Selected Metalworking Operations

For all industries in SIC Major Groups 35 and 37, and for selected 4-digit industries in Groups 19, 33, 34, 36, and 38, the 1958 Census included a special inquiry on "Selected Metalworking and Related Operations" to provide a measure of certain metalworking and related facilities in manufacturing. The following operations were included in this inquiry: iron or steel foundry; nonferrous foundry (except die casting); die casting (nonferrous metal only); forging--presses, hammers, or upsetters; electroplating; galvanizing and other hot-dip coating; heat treating or annealing of metals for production purposes; automatic screw machine department; machine shop; tool and die shop, if separate from machine shop; pattern shop (foundry patterns only--metal, wood, etc.); plate or structural fabrication; stamping, blanking, and forming; painting, lacquering, and enameling; plastics molding; assembly of product; and shipping department (including packing and crating).

The number of establishments performing these operations and the number of production workers engaged in these operations classified by size of the specific operation are shown by industry in table 1 and by geographic division and State in table 2 (Vol. I, Ch. 8, Selected Metalworking Operations). The size distribution is based on the number of production workers usually employed in the operation. In addition, for selected industries, the actual number of man-hours worked by production workers in specified operations is also shown.

Information on selected metalworking operations was obtained for practically all industries where such operations are important. For individual industries or groups of industries, the inquiry on metalworking and related operations was tailored to fit the principal operations that were characteristic of those industries. For example, the 1958 inquiry for SIC Industry 3691, "storage batteries," did not list electroplating; plate and structural fabrication; stamping, blanking and forming; and automatic screw machine operations, since the 1954 data indicated that these operations were relatively unimportant. Operations such as foundries; die casting; machine shops; and tool and die shops, which accounted for substantial employment in SIC Industry 3691, were included in this inquiry.

In many industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific



operations, primarily in the smallest size class, and to a much smaller degree an understatement of the total number of production workers in the operation.

An approximation of the coverage in terms of both the number of establishments and the total number of all employees is provided for both industry and geographic totals. The coverage for nearly all industries is over 90 percent and is highest in industries in which larger establishments predominate.

For foundry operations, the number of plants operating foundries consists of the number reporting the operation for each industry plus the number of establishments classified in the foundries industries. For forgings operations, the number of plants operating forge shops consists of the number reporting the operation for each industry plus the number of establishments classified in the forgings industry. In footnotes to table 1, 1958 data are shown for the number of establishments classified in these industries. For example, in addition to establishments shown in the table as operating foundries and die casting facilities, the number of establishments classified in the foundry industries is given in the footnote. In the State table, separate columns have been included giving the number of establishments classified in these industries in each State. Similarly, the form used by respondents in Industry 3471, Plating and Polishing, and in Industry 3479, Metal Coating, Engraving, etc., did not include the metalworking inquiry. Consequently, data for establishments in these latter industries were presented in the same manner as for the foundry industries.

A limited inquiry covering machine shops and pattern shop operations was included for the foundry industries, and an inquiry covering machine shops and tool and die shops was included for the forgings industry.

## 29. Selected Equipment Data

An inventory of textile equipment in place was obtained for a number of the important machines used in the basic textile industries. These data, grouped by type of operations or industry activity of the plant, are shown in a separate chapter in the Industry Volume (22.1). Information regarding the coverage of the inquiry is also shown.

Information on various types of presses and the quantity of crushed seed and oil produced from cotton seed, soy beans, and flax seeds by manufacturing plants was also compiled and issued as a separate report. These data are also included in the Industry Volume.

## 30. Special Departmental Reports

For paper plants, stone and clay plants and steel plants where vertically integrated activities are characteristic of establishment operations, selected employment information regarding certain departmental activities was obtained in the 1958 Census. Information relating to pulping departments, quarrying activities, and selected operations in steel plants is shown in the chapters for these industries in the Industry Volume.

## 31. Plant Specialization Data

In response to needs expressed by data users, a program of plant specialization statistics was developed for the 1958 Census. These data provide a more exact measurement of the relationship between the output of an industry and the statistics on employment and payrolls, cost of materials, etc., reported by the same industry. The plant specialization data (in table 8 of the Industry Volume) im-

portantly supplement the information presented in industry tables 5A and 5B.

Specialization for an establishment is computed in two ways. The first computation is in terms of the ratio of all the primary products of the establishment to its total of primary plus secondary products; the second in terms of the ratio of the largest single product class of the establishment to its total of primary plus secondary products. Receipts for contract and commission work as well as other miscellaneous receipts are not included in the plant specialization computation. Establishments are then grouped according to their degrees of specialization at the two levels. The statistics presented in table 8 group establishments in three specialization ranges for most industries: 90 percent or more, 75-89 percent, and less than 75 percent. For each of these ranges at the two levels (all primary products and the product class), statistics are shown on employment and payrolls, value added, cost of materials, value of shipments, and new capital expenditures.

Certain product classes are primary to more than one industry. The industry classification of establishments primarily producing such classes of products is determined on the basis of the kind of operation performed in the establishment, e.g., making the product from purchased materials or from materials produced at the same location. In the plant specialization data (table 8), product classes primary to two or more industries are shown in each of the respective industries. For each industry, the specialization data by industry and product class include only those establishments producing the class of product in the manner defined (e.g., lubricating oils from purchased materials).

Table 8 of the Industry Volume permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or a subgroup (5 digit.) For example, where the ratios of various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, the ratios for the industry as a whole would be significantly affected by shifts in product mix. It should be noted that for those industries in which a production process results in the manufacture of byproducts or other similarly higher correlated products which are separate product classes in the census, the degree of specialization in each of the product classes tends to be somewhat lower.

Differences in the degree of integration of production processes within establishments are often more important than the element of product mix. A partial measure of differences arising from this factor can be derived for some industries through the metalworking operations or other equipment data. For some other industries, data on the production and use of products within the same establishments may be used as an approximate measure (see also discussion in section 7, Industry Classification of Establishments).

## 32. Imputation of Data

Each "key" census total called for on the standard forms had its counterpart in the various short forms. The short forms, however, did not require the detailed distribution of such totals (see section 9, The Census Report Forms). It was necessary, therefore, to impute figures for these missing detail items in order to publish "universe" totals of manufacturing activity.



Imputation of missing items was made feasible by use of the Census Bureau's high speed electronic computer. The procedures for imputation were of two types. For short form respondents production workers and production worker wages were imputed from fixed ratios specified in advance from historical relationships of these items to total employees and total payroll. For other items to be imputed (for example, the breakdown of total capital expenditures to expenditures on structures, etc.), the imputation was made by a randomizing process in which similar establishments (same industry and size class) were used in deriving the ratios needed for imputation of the detailed data.

For industries characterized by establishments of some size, the percentage of imputation of general measures such as employment and payrolls, cost of materials, inventories, expenditures, and the like is negligible; for the industries in which small establishments account for a significant portion of the total, the percent may go as high as 10 or 25, but this occurs only in a handful of industries. Of the various statistics, man-hours worked tended to have a higher degree of imputation than the other items due to difficulties in reporting those data by small and medium-size establishments.

The major exceptions to the imputation procedure for missing data were the detailed products and materials, metalworking operations, and equipment inquiries. The value of products and the cost of materials, parts, supplies and containers for establishments not reporting the detailed inquiries were treated as "unspecified" materials or products in the appropriate tables. For metalworking operations and equipment, the statistics were based on establishments reporting data, with appropriate measures of coverage shown in the tables.

### 33. Confidentiality of Data for Individual Companies

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1958 Census, as in 1947 and 1954, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over standard metropolitan areas, while such areas were given preference over counties, and counties over cities. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings took precedence over 5-digit product classes; the latter were given precedence over individual 7-digit products.

Such order-of-precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least important) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is increased.

For each producing State not shown separately in table 2 of the Industry Volume, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, and the employment data represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 100 employees are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State, metropolitan area, or principal industrial county if the publication of such statistics would disclose information for individual companies. In table 3 of that Volume, however, the number of establishments is shown for every county and the number of employees for most counties represented by three or more companies. Moreover, all counties having manufacturing establishments are included in table 7, showing for each county the distribution by employment size of establishments in each major industry group.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions in order to show all plants by some geographic grouping. For this purpose the following combinations of Census divisions have been used:

NORTHEAST	SOUTH
New England	South Atlantic
Middle Atlantic	East South Central
	West South Central
NORTH CENTRAL	WEST
East North Central	Mountain
West North Central	Pacific

### 34. Abbreviations

The following abbreviations and symbols occur frequently in tables and footnotes:

...	zero
xxx	Not applicable
NA	Not available
n.e.c.	Not elsewhere classified
lin.	linear
equiv.	equivalent
hp	horsepower
kwh	kilowatt-hours
D	Withheld to avoid disclosing figures for individual companies
SIC	Standard Industrial Classification
n.s.k.	Not specified by kind

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."







# Major Group 29.—Petroleum and Coal Products

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas (water or coke oven) to consumers are classified in public utilities industries,

and those primarily engaged in producing coke and by-products in Major Group 33. Establishments primarily engaged in producing crude petroleum, natural gas, natural gasoline and cycle condensation are classified in Mining Industries.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments number		All employees <sup>1</sup>		Production workers			Value added by manufacture, adjusted <sup>2</sup>	Capital expenditures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	255,409	1,643,660	130,508	255,360	758,422	2,518,424	671,926
Administrative and auxiliary establishments <sup>3</sup> .....	(NA)	(NA)	66,170	526,987	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	1,608	653	179,166	1,116,673	130,508	255,360	758,422	2,518,424	671,926
Operating manufacturing establishments:									
1957 <sup>6</sup> .....	(NA)	(NA)	185,562	1,149,941	135,094	268,144	771,048	3,249,345	<sup>4</sup> 899,551
1956 <sup>6</sup> .....	(NA)	(NA)	183,988	1,082,575	136,276	271,084	744,071	3,317,815	700,700
1955 <sup>6</sup> .....	(NA)	(NA)	183,036	1,001,312	135,815	270,888	692,015	2,793,104	545,343
1954:									
All manufacturing establishments, total.....	1,262	592	230,965	1,285,271	135,844	269,311	659,243	2,240,876	673,883
Administrative and auxiliary establishments <sup>3</sup> .....	xxx	xxx	47,626	332,036	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments (Revised) <sup>4</sup> .....	1,262	592	183,339	953,235	135,844	269,311	659,243	2,240,876	673,883
Operating manufacturing establishments (Original) <sup>4</sup> .....	1,381	681	215,843	1,101,814	163,811	322,947	778,408	2,621,999	753,184
Operating manufacturing establishments:									
1953 <sup>5</sup> .....	(NA)	(NA)	229,294	1,139,577	175,770	350,552	820,992	2,795,373	833,410
1952 <sup>5</sup> .....	1,024	(NA)	220,227	1,035,721	170,260	338,431	751,099	2,618,927	612,258
1951 <sup>5</sup> .....	889	(NA)	218,142	970,072	169,929	346,969	712,090	2,686,571	448,983
1950 <sup>5</sup> .....	1,142	(NA)	207,510	850,261	161,945	330,222	623,752	2,138,570	331,541
1949 <sup>5</sup> .....	(NA)	(NA)	208,397	820,223	166,653	335,646	614,279	1,743,845	473,704
1947 <sup>5</sup> .....	1,411	(NA)	207,618	725,983	165,405	354,089	543,362	1,990,944	399,754
1939 <sup>7</sup> .....	1,227	(NA)	(NA)	107,695	(NA)	176,606	697,273	(NA)	(NA)
1937.....	934	(NA)	(NA)	(NA)	(NA)	188,843	638,265	(NA)	(NA)
1935 <sup>8</sup> .....	928	(NA)	124,148	186,513	105,079	(NA)	143,053	471,411	(NA)
1933.....	835	(NA)	102,523	140,706	89,772	(NA)	113,320	395,245	(NA)
1931.....	859	(NA)	(NA)	(NA)	90,827	(NA)	139,812	431,585	(NA)
1929 <sup>9</sup> .....	922	(NA)	(NA)	(NA)	111,554	(NA)	180,028	828,848	(NA)
1927.....	645	(NA)	116,430	201,760	99,845	(NA)	159,044	543,148	(NA)
1925.....	750	(NA)	113,072	193,370	97,071	(NA)	153,921	634,939	(NA)
1923.....	781	(NA)	124,504	210,125	103,110	(NA)	163,279	562,039	(NA)
1921.....	692	(NA)	102,485	175,940	86,538	(NA)	135,824	429,870	(NA)
1919.....	787	(NA)	118,209	182,389	97,250	(NA)	142,615	510,769	(NA)
1914.....	591	(NA)	59,956	48,999	50,702	(NA)	36,440	111,860	(NA)
1909 <sup>10</sup> .....	590	(NA)	51,317	34,076	45,755	(NA)	26,764	76,299	(NA)
1904.....	376	(NA)	39,111	23,264	35,751	(NA)	19,293	57,462	(NA)
1899.....	308	(NA)	31,314	16,411	29,198	(NA)	13,803	36,989	(NA)

NA Not available.

<sup>1</sup>The figures for 1939 through 1958 include data for employees of manufacturing establishments who are engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>3</sup>In addition to data for operating establishments 1954 and 1958 data are shown for manufacturer's central administrative offices and auxiliary units. Similar data are shown for the years 1949-1953 and 1955-1957 in Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>4</sup>The 1957 edition of the Standard Industrial Classification classifies Beehive Coke Ovens and Byproduct Coke Ovens in Major Group 33. Such establishments were previously included in Major Group 29, Petroleum and Coal Products. However, this change was reflected in the tabulations for 1955-1957 Annual Surveys of Manufactures. Data for 1954 were retabulated on this basis and are the source of the data labelled "Revised". Figures labelled "Original" for 1954 and data for prior years include Beehive and Byproduct Coke Ovens.

<sup>5</sup>The 1947 figures have been revised to exclude data for by-product coke plants operated in conjunction with public utilities manufacturing and distributing gas, and to include data for establishments primarily engaged in shipping lubricants and greases made from animal and vegetable oils (classified in Industry 2899 in 1947). The figures for 1949-1953 can not be revised to include these greases.

<sup>6</sup>The figures for 1955-1957 and 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>7</sup>Figures for years prior to 1939 exclude byproduct coke ovens owned by city gas companies. Such ovens represent less than 2 percent of the total value of products for the petroleum and coal products group for 1939.

<sup>8</sup>Excludes a few establishments engaged principally in blending and compounding lubricating oils.

<sup>9</sup>Figures for years prior to 1929 exclude lubricants, n.e.c. and paving mixtures and blocks. These industries represented 4 percent of the figure for number of production workers and 5 percent of the figure for value added by manufacture, shown for the petroleum and coal products group for 1929. Prior to 1929, the lubricants, n.e.c. industry is included in the series for chemical and allied products group.

<sup>10</sup>Figures for years prior to 1909 exclude fuel briquets and roofing felts and coatings. For 1909, these industries represented 6 percent of the figure for number of production workers and 9 percent of the figure for value added by manufacture shown for the petroleum and coal products group.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
29	PETROLEUM AND COAL PRODUCTS, TOTAL . . . . .	1 608	653	179 166	1 116 673	130 508	255 360	758 422	2 518 424	671 926	183 339	2 208 739
	NEW ENGLAND . . . . .	78	23	2 345	13 660	1 702	3 545	8 906	25 445	1 909	2 253	24 402
	MAINE . . . . .	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEW HAMPSHIRE . . . . .	3	1	60	324	49	100	208	680	4	(*)	(*)
	VERMONT . . . . .	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MASSACHUSETTS . . . . .	40	13	1 582	9 290	1 143	2 412	5 949	17 251	1 209	1 588	18 825
	RHODE ISLAND . . . . .	7	3	267	1 597	210	422	1 187	3 016	303	361	1 988
	CONNECTICUT . . . . .	20	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MIDDLE ATLANTIC . . . . .	328	103	31 139	193 573	23 002	44 624	132 986	305 585	100 136	37 592	360 663
	NEW YORK . . . . .	115	26	3 021	18 802	2 046	4 220	11 837	34 395	9 734	3 770	33 288
	NEW JERSEY . . . . .	76	33	11 377	72 535	7 933	15 076	47 464	108 838	51 004	16 346	145 976
	PENNSYLVANIA . . . . .	137	44	16 741	102 236	13 023	25 328	73 685	162 352	39 398	17 476	181 398
	EAST NORTH CENTRAL . . . . .	348	145	35 254	222 498	25 611	49 806	150 723	529 158	123 228	37 860	506 859
	OHIO . . . . .	127	36	7 672	48 268	5 432	10 863	31 961	141 769	28 849	7 999	115 121
	INDIANA . . . . .	39	17	9 933	64 289	7 444	14 251	46 162	117 522	35 963	11 532	132 254
	ILLINOIS . . . . .	98	53	14 140	86 351	10 374	19 878	59 012	208 297	50 270	14 990	204 756
	MICHIGAN . . . . .	61	26	2 807	19 755	1 963	4 022	11 607	50 709	5 690	2 678	47 250
	WISCONSIN . . . . .	23	13	702	3 835	398	792	1 981	10 861	2 456	660	7 477
	WEST NORTH CENTRAL . . . . .	114	51	9 254	54 341	6 881	13 686	37 467	152 411	32 496	8 501	100 841
	MINNESOTA . . . . .	22	10	1 289	7 936	878	1 878	4 885	27 145	1 251	940	12 219
	IOWA . . . . .	17	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	102	920
	MISSOURI . . . . .	37	16	2 769	15 483	2 072	4 031	10 642	37 560	1 528	2 897	34 094
	NORTH DAKOTA . . . . .	6	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA . . . . .	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	KANSAS . . . . .	26	16	4 448	26 883	3 422	6 781	19 491	72 097	24 373	4 343	51 096
	SOUTH ATLANTIC . . . . .	152	49	4 794	26 418	3 552	7 359	17 454	82 487	8 446	4 330	45 471
	DELAWARE . . . . .	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	127	1 173
	MARYLAND . . . . .	28	12	1 264	7 127	951	1 915	4 814	18 818	1 730	(*)	(*)
	VIRGINIA . . . . .	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WEST VIRGINIA . . . . .	28	9	709	3 470	589	1 195	2 727	6 663	653	677	6 348
	NORTH CAROLINA . . . . .	14	1	177	788	148	301	639	1 589	95	127	1 085
	SOUTH CAROLINA . . . . .	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	159	2 008
	GEORGIA . . . . .	21	7	646	3 112	490	996	2 036	7 199	575	517	5 690
	FLORIDA . . . . .	39	12	701	3 239	575	1 273	2 439	6 405	619	284	2 429
	EAST SOUTH CENTRAL . . . . .	78	23	2 655	13 851	1 990	4 127	9 583	46 822	5 018	2 569	31 135
	KENTUCKY . . . . .	20	6	1 060	6 462	713	1 450	3 999	25 756	1 743	1 166	14 293
	TENNESSEE . . . . .	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ALABAMA . . . . .	26	9	764	3 396	641	1 271	2 628	9 491	1 417	843	10 674
	MISSISSIPPI . . . . .	13	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	223	138	65 361	415 002	47 357	92 048	283 542	921 814	262 928	63 653	773 510
	ARKANSAS . . . . .	19	12	1 582	8 892	1 223	2 462	6 408	18 777	5 222	1 430	19 749
	LOUISIANA . . . . .	40	25	14 287	94 243	8 839	17 814	54 547	201 867	58 354	14 043	188 438
	OKLAHOMA . . . . .	34	22	6 547	36 498	5 514	11 038	29 990	108 447	22 072	7 221	98 931
	TEXAS . . . . .	130	79	42 945	275 369	31 781	60 734	192 597	592 723	177 280	40 958	466 391
	MOUNTAIN . . . . .	75	42	6 096	37 363	4 373	8 565	26 335	103 067	21 123	5 850	85 826
	MONTANA . . . . .	11	8	1 065	7 031	814	1 622	5 173	24 081	6 528	(*)	(*)
	IDAHO . . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WYOMING . . . . .	15	9	2 421	15 175	1 684	3 239	10 452	31 931	4 681	2 622	28 620
	COLORADO . . . . .	20	10	808	4 947	626	1 327	3 767	13 887	3 220	(*)	(*)
	NEW MEXICO . . . . .	9	8	661	3 343	466	837	2 413	9 380	2 780	496	6 454
	ARIZONA . . . . .	5	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	UTAH . . . . .	12	7	1 080	6 579	750	1 478	4 362	23 162	3 861	1 129	26 896
	NEVADA . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	PACIFIC . . . . .	213	79	22 328	139 967	16 040	31 600	91 426	351 635	116 642	20 730	280 590
	WASHINGTON . . . . .	23	8	1 305	9 045	896	1 838	5 389	33 345	51 050	205	2 308
	OREGON . . . . .	11	4	279	1 521	199	418	1 057	4 489	82	369	5 210
	CALIFORNIA . . . . .	179	67	20 744	129 401	14 945	29 344	84 980	313 801	65 510	20 155	273 072
291	PETROLEUM REFINING, TOTAL <sup>1</sup> . . . . .	446	313	146 025	944 332	106 898	207 609	648 278	2 119 402	646 909	153 072	1 901 333
295	PAVING AND ROOFING MATERIALS, TOTAL . . . . .	772	217	23 317	119 472	17 364	35 717	82 137	269 035	16 469	20 097	199 584
	NEW ENGLAND . . . . .	56	16	1 436	7 536	1 134	2 432	5 542	15 673	593	1 132	12 304
	MIDDLE ATLANTIC . . . . .	194	43	4 452	24 390	3 301	6 945	16 087	57 087	4 806	4 481	45 234
	NEW YORK . . . . .	84	16	1 203	7 432	762	1 658	4 065	19 334	1 753	1 158	13 765
	NEW JERSEY . . . . .	34	14	1 877	10 159	1 439	3 053	7 114	21 686	1 335	2 108	19 316
	PENNSYLVANIA . . . . .	76	13	1 372	6 799	1 100	2 234	4 908	16 067	1 718	1 214	12 152
	EAST NORTH CENTRAL . . . . .	161	51	6 909	35 925	5 242	10 528	25 237	75 239	4 845	6 855	65 792
	OHIO . . . . .	70	13	2 055	10 331	1 517	3 106	7 080	27 331	1 254	2 125	24 813
	INDIANA . . . . .	22	6	611	3 222	432	891	2 083	6 654	(D)	(*)	(*)
	ILLINOIS . . . . .	42	24	3 719	19 598	2 853	5 722	14 005	34 416	2 228	(*)	(*)
	MICHIGAN . . . . .	23	7	477	2 517	401	726	1 863	6 317	572	358	3 372
	WEST NORTH CENTRAL . . . . .	40	13	1 432	7 276	1 139	2 241	5 087	15 114	579	1 174	11 348
	MINNESOTA . . . . .	10	4	452	2 438	336	723	1 529	5 043	204	(*)	(*)
	SOUTH ATLANTIC . . . . .	103	25	2 143	10 363	1 748	3 772	7 662	26 050	(D)	1 467	13 779
	DELAWARE . . . . .	3	2	109	599	80	138	302	904	27	(*)	(*)
	NORTH CAROLINA . . . . .	10	1	156	730	130	266	598	1 496	(D)	(*)	(*)
	GEORGIA . . . . .	13	4	404	1 817	327	694	1 323	4 719	360	317	3 341
	FLORIDA . . . . .	28	9	473	2 405	390	886	1 828	5 038	480	267	2 271
	EAST SOUTH CENTRAL . . . . .	54	9	979	3 790	790	1 561	2 852	10 194	(D)	803	8 135

See footnotes at end of table.



# PETROLEUM AND COAL PRODUCTS

29-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
295	PAVING AND ROOFING MATERIALS—CON.											
	WEST SOUTH CENTRAL . . . . .	53	25	2 804	12 310	1 748	3 565	7 019	24 409	1 036	1 624	15 969
	LOUISIANA . . . . .	15	5	769	3 793	615	1 404	2 836	6 293	170	684	6 665
	OKLAHOMA . . . . .	4	2	100	397	81	133	329	607	(D)	(*)	(*)
	MOUNTAIN . . . . .	15	4	317	1 717	238	507	1 202	4 010	154	310	1 491
	PACIFIC . . . . .	96	31	2 845	16 165	2 024	4 166	11 449	41 259	1 320	2 248	25 529
	WASHINGTON . . . . .	9	3	150	933	120	260	723	2 142	(D)	(*)	(*)
299	PETROLEUM & COAL PRODUCTS, NEC, TOTAL	390	123	9 824	52 869	6 246	12 034	28 007	129 987	8 548	10 169	107 818
	NEW ENGLAND . . . . .	14	4	226	1 260	127	257	560	2 598	147	243	2 597
	MASSACHUSETTS . . . . .	8	1	100	522	51	103	205	886	9	107	863
	MIDDLE ATLANTIC . . . . .	89	31	2 878	16 579	1 828	3 525	8 829	38 723	1 869	3 291	34 398
	NEW YORK . . . . .	24	5	312	1 641	208	412	871	2 972	102	(*)	(*)
	NEW JERSEY . . . . .	25	10	1 309	6 923	892	1 631	4 095	18 234	830	(*)	(*)
	PENNSYLVANIA . . . . .	40	16	1 257	8 015	728	1 482	3 863	17 517	937	1 253	14 623
	EAST NORTH CENTRAL . . . . .	114	43	2 998	17 717	1 589	3 115	7 697	44 041	3 895	3 171	32 384
	OHIO . . . . .	39	12	1 022	6 334	521	1 033	2 638	12 958	589	934	9 116
	INDIANA . . . . .	7	2	166	1 029	88	175	359	2 520	(D)	(*)	(*)
	ILLINOIS . . . . .	35	15	1 044	6 037	580	1 092	2 742	16 672	1 837	1 147	12 462
	MICHIGAN . . . . .	20	6	348	2 064	211	446	1 116	4 569	464	570	6 700
	WISCONSIN . . . . .	13	8	418	2 253	189	369	842	7 322	(D)	(*)	(*)
	WEST NORTH CENTRAL . . . . .	43	15	1 343	6 545	919	1 898	3 840	15 650	592	1 315	14 566
	MISSOURI . . . . .	20	8	865	4 263	622	1 298	2 612	10 930	355	(*)	(*)
	SOUTH ATLANTIC . . . . .	23	10	518	2 137	383	731	1 339	4 504	(D)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	38	10	1 020	4 395	793	1 375	2 918	12 174	1 027	(*)	(*)
	LOUISIANA . . . . .	6	4	395	2 197	302	608	1 419	4 593	825	427	5 785
	OKLAHOMA . . . . .	11	2	311	850	254	359	537	1 234	(D)	(*)	(*)
	MOUNTAIN . . . . .	8	2	110	510	78	153	368	1 269	204	(*)	(*)
	PACIFIC . . . . .	53	7	640	3 428	456	838	2 260	10 177	550	(*)	(*)

Note: Due to a change in the Standard Industrial Classification system between the two census years the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.



## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Petroleum and coal products (SIC 29)	Petroleum refining (SIC 291)	Paving and roofing materials (SIC 295)	Petroleum and coal products, nec (SIC 299)
Number of establishments, total.....	1,608	446	772	390
With 1-19 employees.....	955	133	555	267
With 20-99 employees.....	376	111	163	102
With 100 employees or more.....	277	202	54	21
Proprietors and working partners.....Number..	334	85	129	120
All employees:				
Number (average for the year).....	179,166	146,025	23,317	9,824
Payroll.....\$1,000..	1,116,673	944,332	119,472	52,869
Production workers:				
Number (average for the year).....	130,508	106,898	17,364	6,246
March.....	128,652	107,974	14,409	6,269
May.....	132,116	107,795	18,111	6,210
August.....	132,881	106,978	19,631	6,272
November.....	128,212	104,727	17,259	6,226
Man-hours.....1,000..	255,360	207,609	35,717	12,034
January-March.....do...	62,883	53,072	6,824	2,987
April-June.....do...	64,533	52,139	9,432	2,962
July-September.....do...	64,657	51,208	10,566	2,883
October-December.....do...	62,992	51,170	8,734	3,088
Wages.....\$1,000..	758,422	648,278	82,137	28,007
Value added by manufacture, adjusted.....do...	2,518,424	2,119,402	269,035	129,987
Cost of fuels consumed.....do...	184,816	168,777	13,394	2,645
Cost of electricity purchased.....do...	77,773	71,631	4,769	1,373
Manufacturers' inventories:				
Beginning of year, total.....do...	1,884,253	1,783,646	46,708	53,899
Finished products.....do...	1,062,247	1,016,727	23,248	22,272
Work-in-process.....do...	415,808	410,612	1,950	3,246
Materials, supplies, fuels, etc.....do...	406,198	356,307	21,510	28,381
End of year, total.....do...	1,675,873	1,572,935	46,580	56,358
Finished products.....do...	923,350	876,817	23,917	22,616
Work-in-process.....do...	385,138	380,313	1,932	2,893
Materials, supplies, fuels, etc.....do...	367,385	315,805	20,731	30,849
Expenditures for plant and equipment, total.....do...	674,516	648,500	17,270	8,746
New, total.....do...	671,926	646,909	16,469	8,548
New structures and additions to plant.....do...	525,294	515,707	4,939	4,648
New machinery and equipment.....do...	146,632	131,202	11,530	3,900
Used plant and equipment.....do...	2,590	1,591	801	198

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding to computer operations.



# Petroleum Refining and Related Industries

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 2911—Petroleum Refining
- 2951—Paving Mixtures and Blocks
- 2952—Asphalt Felts and Coatings
- 2992—Lubricating Oils and Greases
- 2999—Products of Petroleum and Coal, N.E.C.

### 2911—Petroleum Refining

This industry comprises establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants and other products from crude petroleum, and its fractionation products either through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in Industry 2992. For a detailed list of products of Industry 2911, refer to table 6A, product codes 2911011 to 2911951.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Petroleum Refining Industry in 1958 totaled \$14,539 million. This included shipments of refined petroleum products (primary products), valued at \$13,825 million, shipments of other products (secondary products) valued at \$243 million, and miscellaneous receipts of \$471 million.

This industry's shipments of refined petroleum products (primary products) in 1958 represented 98 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 99 percent. Secondary products shipped by this industry in 1958 consisted mainly of industrial organic chemicals, n.e.c., \$106 million; and surface active and finishing agents, \$30 million.

Industry 2911 shipments of refined petroleum products (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$14,134 million shipped by all industries. In 1954, the coverage ratio was also 98 percent.

Lubricating oils, lubricating oil base stocks and lubricating greases are not only produced by petroleum refineries but are also produced from purchased materials by plants blending and compounding lubricants and classified in Industry 2992, Lubricating Oils and Greases. Plants classified in Industry 2911 and 2992 shipped substantially all of the lubricating oils and greases valued at \$873 million with Industry 2911 accounting for 73 percent.

Oils are frequently transferred from one refinery to another for further processing and blending. This introduces some duplications in the "Value of products shipped"

by the Petroleum Refining Industry, as shown in tables 1, 2, and 5. To eliminate duplication in the statistics for individual products, figures were collected on the amount of oil received by refineries during the year. Net (unduplicated) shipments were calculated, for the United States as a whole, by subtracting "Receipts" from the quantity shipped (see table 6A). These net shipments represent the quantity of petroleum products made available for consumption by the "Petroleum Refining" and Lubricating Oils and Greases" Industries.

Industry 2911 also includes establishments primarily engaged in re-refining used oils. In 1958 there were 51 establishments with total shipments of \$16 million re-refining used oils and 395 establishments refining new oils.

Unlike most manufacturing industries where the receipts for contract work are reported as such, plants in Industry 2911 processing oil on a contract basis for other companies were requested to report the commercial cost of all materials received and the market values, f.o.b. plant for the products shipped. Although separate information was not received for 1958 showing the value of materials processed for others, the amount reported for 1954 was \$29 million. This figure did not include other types of contract and commission work.

Petroleum product statistics shown in this report are not directly comparable with the Bureau of Mines figures published in the Minerals Yearbook. The Census of Manufactures collects data on shipments, whereas the Bureau of Mines figures are in terms of "output" (production).

Detailed product statistics for liquefied gases used as chemical raw material were not collected since these data are reported to the United States Tariff Commission and published in the report "Synthetic Organic Chemicals, United States Production and Sales."

Data showing net shipments of gas liquids and related products covered in the 1958 Economic Censuses appear in the reports for the 1958 Census of Mineral Industries. Data showing the distribution of shipments for selected products from the refinery direct to the consumers and retailers appear in table 9A. Table 7A contains data showing the consumption of selected materials. Other data relating to "inputs" of materials appear as "receipts" in table 6A. Because fuel is an important item and furnishes a supply of material for alternative uses at the refinery, data showing United States totals, and by State consumed in the refineries appear in table 7C.

### 2951—Paving Mixtures and Blocks

This industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures; and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in Major Group 32. For a detailed list of products of Industry 2951, refer to table 6A, product codes 2951011 to 2951098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Man-



ual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Paving Mixtures and Blocks Industry in 1958 totaled \$268 million. This included shipments of paving mixtures and blocks (primary products), valued at \$226 million, shipments of other products (secondary products) valued at \$14 million, and miscellaneous receipts of \$28 million.

This industry's shipments of paving mixtures and blocks (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 97 percent. Secondary products shipped by this industry in 1958 consisted mainly of asphalt felts and coatings, \$2 million; and ready-mixed concrete, \$3 million.

Industry 2951 shipments of paving mixtures and blocks (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$266 million shipped by all industries. In 1954, the coverage ratio was 94 percent. Other industries shipping paving mixtures and blocks (primary products) consisted mainly of Industry 2911, Petroleum Refining, \$11 million; Industry 2952, Asphalt Felts and Coatings, \$9 million; and Industry 3273, Ready-mixed Concrete, \$6 million.

#### 2952—Asphalt Felts and Coatings

This industry comprises establishments primarily engaged in manufacturing asphalt and other saturated roofing felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in Industry 2851. For a detailed list of products of Industry 2952, refer to table 6A, product codes 2952111 to 2952398.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Asphalt Felts and Coatings Industry in 1958 totaled \$463 million. This included shipments of asphalt felts and coatings (primary products), valued at \$376 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts of \$45 million.

This industry's shipments of asphalt felts and coatings (primary products) in 1958 represented 90 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent. Secondary products shipped by this industry in 1958 consisted mainly of asbestos products, \$15 million; and paving mixtures and blocks, \$9 million.

Industry 2952 shipments of asphalt felts and coatings (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$408 million shipped by all industries. In 1954, the coverage ratio was 94 percent. Other industries shipping asphalt felts and coatings (primary products) consisted mainly of Industry 2814, Cyclic (Coal Tar) Crudes, \$7 million; and Industry 2852, Putty and Caulking Compounds, \$3 million.

The statistics in this report differ somewhat from those published in the monthly Current Industrial Reports Series M26D, "Asphalt and Tar Roofing and Siding Products." The differences are caused in part by calendar year totals

used for the monthly series and fiscal year reporting by some companies in the Census of Manufactures.

#### 2992—Lubricating Oils and Greases

This industry comprises establishments primarily engaged in blending and compounding lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in Industry 2911. For a detailed list of products of Industry 2992, refer to table 6A, product codes 2992611 to 2992751.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Lubricating Oils and Greases Industry in 1958 totaled \$281 million. This included shipments of lubricating oils and greases (primary products), valued at \$224 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts of \$23 million.

This industry's shipments of lubricating oils and greases (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent. Secondary products shipped by this industry in 1958 consisted mainly of specialty cleaning and sanitation products, \$2 million; and surface active and finishing agents, \$2 million.

Industry 2992 shipments of lubricating oils and greases (primary products) in 1958 represented 25 percent (coverage ratio) of these products valued at \$883 million shipped by all industries. In 1954, the coverage ratio was also 25 percent. However, lubricating oils and greases are also primary to Industry 2911, Petroleum Refining. A coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would total 97 percent in 1958. Lubricating oils and greases (primary products) shipped by Industry 2911, Petroleum Refining, totaled \$638 million and Industry 2899, Chemical Specialties, \$5 million.

#### 2999—Products of Petroleum and Coal, N.E.C.

This industry comprises establishments primarily engaged in manufacturing fuel briquets, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal, n.e.c. For a detailed list of products of Industry 2999, refer to table 6A, product codes 2999011 to 2999098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Petroleum and Coal Products, N.E.C., Industry in 1958 totaled \$74.9 million. This included shipments of products of petroleum and coal, n.e.c. (primary products), valued at \$64.4 million, shipments of other products (secondary products), valued at \$3.1 million, and miscellaneous receipts of \$7.4 million.

This industry's shipments of products of petroleum and coal, n.e.c. (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 94 percent.



Industry 2999 shipments of products of petroleum and coal, n.e.c. (primary products) in 1958 represented 96 percent (coverage ratio) of these products valued at \$67.0 million shipped by all industries. In 1954, the coverage ratio was 89 percent.

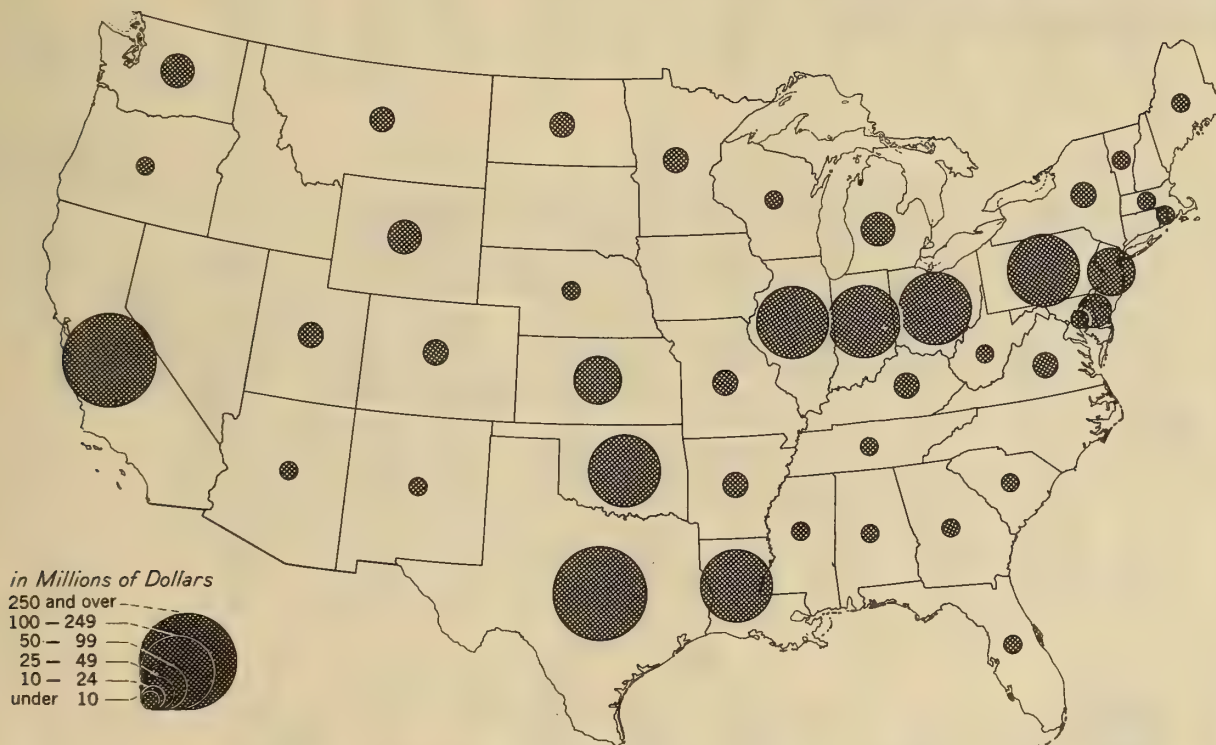
The figures for fuel briquets and packaged fuel appearing in this report exclude the quantities and amounts shipped by establishments classified in nonmanufacturing indus-

tries. They, therefore, differ from the figures published by the Bureau of Mines, United States Department of Interior in the Minerals Yearbook which includes data for nonmanufacturing establishments such as retail or wholesale coal yards and public utilities which produce some fuel briquets as a secondary activity. The Census figures for fuel briquets also include information for briquets made from charcoal and sawdust, data for which are omitted by the Bureau of Mines.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## PETROLEUM REFINING: SIC 291

Value Added by Manufacture by State: 1958



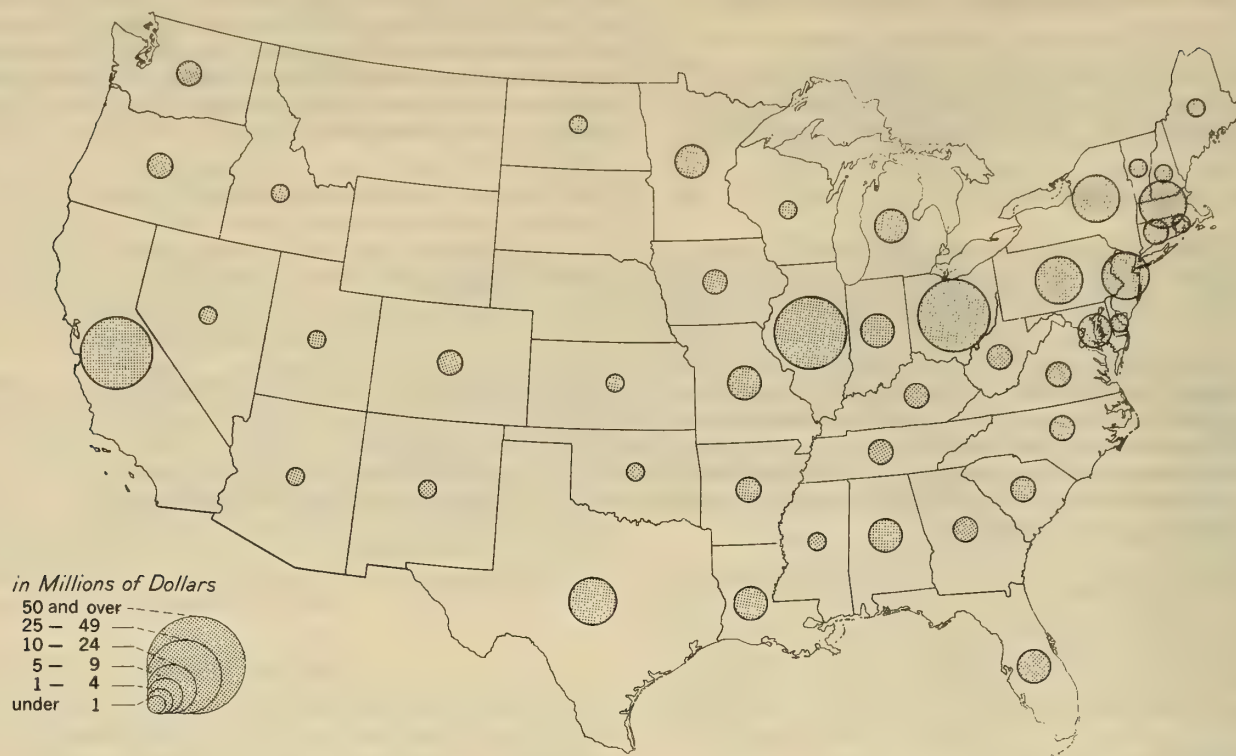
Includes only Industry 2911. See Table 2.

Bureau of the Census M-58-D291



## PAVING AND ROOFING MATERIALS: SIC 295

Value Added by Manufacture by State: 1958

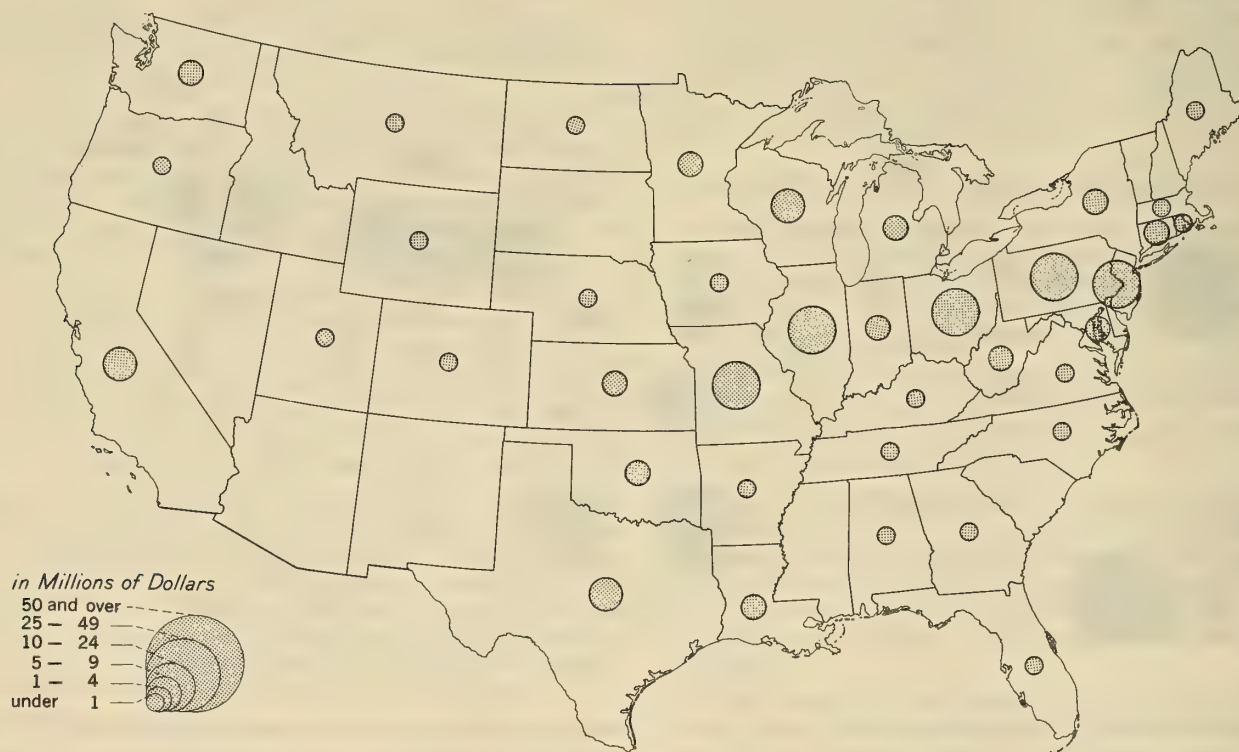


Includes Industries 2951 and 2952. See Table 2.

Bureau of the Census M-58 D295

## MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL: SIC 299

Value Added by Manufacture by State: 1958



Includes Industries 2992 and 2999. See Table 2.

Bureau of the Census M-58-D299



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new <sup>4</sup>	Specialization ratio <sup>4</sup> (percent)	Coverage ratio <sup>5</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
2911	Petroleum refining:														
	1958.....	289	446	313	146,025	944,332	106,898	207,609	648,278	2,119,402	12,249,444	14,539,055	646,909	98	98
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	153,920	979,262	112,546	222,399	665,245	2,868,179	12,271,740	14,920,173	876,523	98	98
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	153,786	931,107	114,231	225,734	645,072	2,960,559	11,421,680	14,185,451	686,780	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	150,821	849,095	112,080	221,241	591,642	2,434,720	10,490,971	12,866,470	533,297	(NA)	(NA)
	1954.....	253	409	316	153,072	816,120	113,829	223,116	570,791	1,918,020	10,258,714	12,182,245	656,033	99	98
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	159,542	830,424	119,149	234,486	585,111	1,997,160	9,557,286	11,554,446	641,096	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	153,190	757,079	114,711	228,904	537,463	1,959,465	8,945,456	10,904,921	446,004	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	151,434	702,104	114,306	232,367	504,075	1,990,147	8,548,832	10,538,979	338,808	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	139,125	607,744	105,611	215,458	435,796	1,484,441	6,925,986	8,410,427	254,402	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	144,155	599,686	113,709	229,388	447,598	1,210,876	6,470,702	7,681,578	403,455	(NA)	(NA)
	1947.....	277	437	(NA)	145,806	535,781	113,847	237,506	396,236	1,494,474	5,129,234	6,623,708	316,370	99	97
	1939 <sup>7</sup> .....	(NA)	518	(NA)	(NA)	(NA)	72,982	(NA)	128,420	528,575	1,933,921	2,462,496	(NA)	(NA)	(NA)
	1937.....	(NA)	365	(NA)	98,450	176,808	83,182	(NA)	140,415	482,439	2,064,307	2,546,746	(NA)	(NA)	(NA)
	1935.....	(NA)	395	(NA)	92,111	143,452	77,402	(NA)	109,611	356,686	1,481,936	1,838,622	(NA)	(NA)	(NA)
	1933.....	(NA)	389	(NA)	78,862	111,361	69,047	(NA)	89,793	314,200	1,064,437	1,378,637	(NA)	(NA)	(NA)
	1931.....	(NA)	376	(NA)	(NA)	(NA)	68,824	(NA)	107,474	313,768	1,210,517	1,524,285	(NA)	(NA)	(NA)
	1929.....	(NA)	390	(NA)	94,393	164,755	80,596	(NA)	131,177	608,324	2,031,341	2,639,665	(NA)	(NA)	(NA)
	1927.....	(NA)	354	(NA)	83,293	144,617	71,234	(NA)	113,717	389,652	1,752,997	2,142,649	(NA)	(NA)	(NA)
	1925.....	(NA)	359	(NA)	76,527	132,286	65,324	(NA)	104,645	486,979	1,889,678	2,376,657	(NA)	(NA)	(NA)
	1923.....	(NA)	382	(NA)	82,759	138,402	66,717	(NA)	103,834	368,647	1,425,053	1,793,700	(NA)	(NA)	(NA)
	1921.....	(NA)	366	(NA)	74,228	130,197	63,189	(NA)	102,294	345,270	1,382,170	1,727,440	(NA)	(NA)	(NA)
	1919.....	(NA)	320	(NA)	73,414	116,369	58,889	(NA)	89,750	384,625	1,247,908	1,632,533	(NA)	(NA)	(NA)
	1914.....	(NA)	176	(NA)	31,025	27,290	25,366	(NA)	19,397	71,096	325,265	396,361	(NA)	(NA)	(NA)
	1909.....	(NA)	147	(NA)	16,598	13,759	13,929	(NA)	9,830	37,725	199,273	236,998	(NA)	(NA)	(NA)
	1904.....	(NA)	98	(NA)	18,744	12,713	16,770	(NA)	9,989	35,618	139,387	175,005	(NA)	(NA)	(NA)
	1899.....	(NA)	67	(NA)	13,400	8,528	12,199	(NA)	6,717	21,070	102,859	123,929	(NA)	(NA)	(NA)
2951 (old SIC 2951)	Paving mixtures and blocks:														
	1958.....	415	563	89	7,797	42,028	5,823	11,708	28,130	112,548	154,949	267,676	9,856	94	85
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	5,763	26,376	4,237	9,105	16,947	77,713	86,264	158,078	(S)	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	5,093	23,388	3,763	7,646	14,858	59,746	81,192	138,637	(S)	(NA)	(NA)
	1954.....	252	326	47	4,367	20,092	3,260	6,688	12,508	52,145	81,334	133,178	5,367	97	94
	1947.....	182	264	(NA)	2,785	8,565	2,042	(NA)	5,618	23,249	27,728	50,977	(NA)	99	88
	1939.....	(NA)	231	(NA)	3,193	4,494	2,437	(NA)	2,681	13,728	19,026	32,754	(NA)	(NA)	(NA)
	1937.....	(NA)	148	(NA)	2,456	3,407	1,946	(NA)	2,419	10,684	14,605	25,289	(NA)	(NA)	(NA)
	1935.....	(NA)	132	(NA)	2,660	3,570	2,231	(NA)	2,514	7,901	9,984	17,885	(NA)	(NA)	(NA)
	1933.....	(NA)	93	(NA)	1,348	1,569	1,151	(NA)	1,215	4,663	6,287	10,950	(NA)	(NA)	(NA)
	1931.....	(NA)	97	(NA)	(NA)	(NA)	1,081	(NA)	1,556	7,416	8,587	16,003	(NA)	(NA)	(NA)
	1929 <sup>8</sup> .....	(NA)	77	(NA)	(NA)	(NA)	1,376	(NA)	2,187	10,062	11,998	22,060	(NA)	(NA)	(NA)
2952 (old SIC 2952)	Asphalt felts and coatings:														
	1958.....	119	209	128	15,520	77,444	11,541	24,009	54,007	156,487	304,421	460,104	6,613	90	92
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	16,692	74,506	13,548	28,966	57,082	176,499	278,450	447,881	(S)	(NA)	(NA)
	1954.....	108	197	120	15,730	68,054	12,507	26,950	50,863	155,607	276,808	431,607	7,787	91	94
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,537	72,873	13,516	(NA)	53,024	155,790	256,088	411,878	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,397	74,811	13,795	(NA)	55,329	161,439	263,770	425,209	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	18,235	72,751	14,845	(NA)	53,927	164,079	278,015	442,094	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,549	65,221	14,255	(NA)	48,676	173,814	239,681	413,495	(NA)	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	15,213	50,843	12,149	(NA)	36,814	123,458	200,266	323,724	(NA)	(NA)	(NA)
	1947.....	104	174	(NA)	16,506	49,552	13,761	(NA)	38,435	132,565	205,654	338,219	(NA)	95	95
	1939.....	(NA)	135	(NA)	(NA)	(NA)	8,187	(NA)	10,032	48,079	62,359	110,438	(NA)	(NA)	(NA)
	1937.....	(NA)	111	(NA)	8,520	11,831	7,418	(NA)	9,520	39,918	62,644	102,562	(NA)	(NA)	(NA)
	1933.....	(NA)	74	(NA)	5,053	5,547	4,418	(NA)	4,436	20,940	23,893	44,833	(NA)	(NA)	(NA)
	1931.....	(NA)	83	(NA)	(NA)	(NA)	4,123	(NA)	5,331	26,257	32,706	58,963	(NA)	(NA)	(NA)
	1929.....	(NA)	102	(NA)	7,411	12,456	6,027	(NA)	8,952	42,114	61,392	103,506	(NA)	(NA)	(NA)
	1927.....	(NA)	100	(NA)	8,997	15,177	7,255	(NA)	10,713	55,882	67,328	123,210	(NA)	(NA)	(NA)
	1925.....	(NA)	140	(NA)	10,149	16,940	8,310	(NA)	12,145	44,994	78,597	123,591	(NA)	(NA)	(NA)
	1923.....	(NA)	122	(NA)	9,676	15,137	7,665	(NA)	10,826	28,822	55,520	84,342	(NA)	(NA)	(NA)
	1921.....	(NA)	136	(NA)	8,640	12,945	6,908	(NA)	9,213	31,180	45,013	76,193	(NA)	(NA)	(NA)
	1919.....	(NA)	178	(NA)	11,726	15,759	8,871	(NA)	10,344	33,307	52,588	85,895	(NA)	(NA)	(NA)
	1914.....	(NA)	170	(NA)	5,334	4,620	4,088	(NA)	2,642	10,373	17,605	27,978	(NA)	(NA)	(NA)
	1909 <sup>9</sup> .....	(NA)	117	(NA)	3,484	2,720	2,465	(NA)	1,339	6,746	12,458	19,204	(NA)	(NA)	(NA)
2992 (old SIC 2992)	Lubricating oils and greases:														
	1958.....	284	306	90	7,568	42,349	4,484	8,588	20,441	103,084	177,521	281,377	7,230	86	1025
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	8,472	45,672	4,832	9,183	22,113	105,415	166,791	262,368	3,338	84	1017
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	8,584	44,919	4,971	9,610	22,255	110,652	164,347	264,966	5,286	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	8,427	43,323	4,944	9,770	21,065	106,079	154,719	251,717	4,808	(NA)	(NA)
	1954.....	265	283	84	8,159	40,062	4,702	9,414	18,912	90,661	172,639	265,111	4,314	87	1018

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new	Specialization ratio, (percent)	Coverage ratio <sup>5</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
2999 (old SIC 2999)	Lubricating oils and greases—Continued														
	1947 <sup>11</sup> .....	205	275	(NA)	8,002	26,263	5,070	(NA)	13,421	80,289	119,068	199,357	(NA)	89	10 19
	1939 <sup>7</sup> .....	(NA)	199	(NA)	(NA)	(NA)	1,986	(NA)	2,507	19,414	28,274	47,688	(NA)	(NA)	(NA)
	1937 <sup>12</sup> .....	(NA)	195	(NA)	3,260	5,309	2,231	(NA)	2,839	18,726	25,387	44,113	(NA)	(NA)	(NA)
	1933.....	(NA)	158	(NA)	2,414	3,184	1,794	(NA)	2,087	11,928	16,774	28,702	(NA)	(NA)	(NA)
	1931.....	(NA)	168	(NA)	(NA)	(NA)	2,115	(NA)	2,960	18,895	22,809	41,704	(NA)	(NA)	(NA)
	1929 <sup>12</sup> .....	(NA)	177	(NA)	4,059	7,906	2,577	(NA)	3,739	30,013	39,571	69,584	(NA)	(NA)	(NA)
	Petroleum and coal products, nec. <sup>13</sup>														
	1958.....	74	84	33	2,256	10,520	1,762	3,446	7,566	26,903	48,715	74,855	1,318	95	96
	1954.....	39	47	25	2,009	8,905	1,544	3,141	6,167	24,437	39,572	63,496	( <sup>14</sup> )	94	89
	1947.....	(NA)	112	(NA)	1,697	4,808	1,453	(NA)	4,042	17,354	30,137	47,491	(NA)	(NA)	(NA)

NA Not available. <sup>12</sup>Revised.<sup>3</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, value added by manufacture represents adjusted value added and for earlier years, unadjusted value added. For 1958 and 1954, cost of materials includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of such resales. Figures for years prior to 1935 do not include cost of contract work. For 1958 and 1954, value of shipments includes shipments of products bought for resale; for other years, excludes value of such resales. For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. For a description of these statistics, see Introduction, "Value Added by Manufacture," "Cost of Materials Consumed," and "Value of Shipments." Unadjusted value added for 1954, cost of materials excluding cost of resales, and value of shipments excluding values of resales, for 1954 and 1958, are shown below:

Industry Code	Value Added (\$1,000)	Cost of Materials, etc. (\$1,000)		Value of Shipments (\$1,000)	
		1958	1954	1958	1954
2911	1,901,333	11,841,495	9,855,883	14,106,250	11,757,218
2951	50,260	145,964	76,300	255,346	126,561
2952	149,323	270,035	251,502	420,091	400,826
2992	85,063	161,776	139,152	260,206	224,216
2999	22,754	42,279	35,732	67,839	58,486

<sup>4</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>5</sup> The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.<sup>6</sup> The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>7</sup> Beginning with the year 1939 establishments engaged in re-refining crankcase drainings and other used oils have been included in the figures for "Petroleum refining;" for earlier years, such establishments were included under "Lubricants, nec."<sup>8</sup> The figures for "Paving mixtures and blocks" prior to 1929 are not sufficiently comparable with those for later years to be shown in this table because they include data for quarrying and crushing stone which is classified in mineral industries.<sup>9</sup> Data for certain asbestos products are included in the figures for 1909.<sup>10</sup> This coverage ratio is based on shipments from all industries. If limited to products shipped by plants other than those from petroleum refineries the ratio would be 91% for 1958; and 93% for 1954. Comparable ratios are not available for 1957 and 1947.<sup>11</sup> The 1947 data have been revised for comparability with 1954 by including data for establishments primarily engaged in shipping lubricants and greases made from animal and vegetable oils (classified in Industry 2899 in 1947). The figures for 1929-1939 are comparable with those for 1947 and 1954.<sup>12</sup> The figures for 1935 and years prior to 1929 include only lubricating greases and, therefore, are not sufficiently comparable with other years to be given in this table.<sup>13</sup> Includes fuel briquets and packaged fuel. Comparable figures are not available prior to 1947.<sup>14</sup> Less than \$500 thousand.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
2911	Petroleum refining, total....	446	313	146,025	944,332	106,898	207,609	648,278	2,119,402	14,539,055	646,909	153,072	1,901,333	145,806
	New England.....	8	3	683	4,864	441	856	2,804	7,174	77,005	1,169	(NA)	(NA)	(NA)
	Middle Atlantic....	45	29	23,809	152,604	17,873	34,154	108,070	209,775	2,047,561	93,461	(NA)	(NA)	(NA)
	New York.....	7	5	1,506	9,729	1,076	2,150	6,901	12,089	151,022	7,879	2,322	17,078	3,156
	New Jersey.....	17	9	8,191	55,453	5,602	10,392	36,255	68,918	823,465	48,839	(2)	(2)	(2)
	Pennsylvania....	21	15	14,112	87,422	11,195	21,612	64,914	128,768	1,073,074	36,743	15,008	154,623	15,478
	East North Central	73	51	25,347	168,856	18,780	36,163	117,789	409,878	2,455,476	114,488	27,834	408,682	26,574
	Ohio.....	18	11	4,595	31,603	3,394	6,724	22,243	101,480	645,825	27,006	4,939	81,192	3,610
	Indiana.....	10	9	9,156	60,038	6,924	13,185	43,720	108,348	693,123	34,924	10,820	126,390	12,137
	Illinois.....	21	14	9,377	60,716	6,941	13,064	42,265	157,209	880,511	46,205	10,065	159,342	9,307
	Michigan.....	18	13	1,982	15,174	1,351	2,850	8,628	39,823	221,174	4,654	1,749	37,177	(D)
	Wisconsin.....	6	4	237	1,325	170	340	933	3,018	14,843	1,699	260	4,579	(D)
	West North Central	31	23	6,479	40,520	4,823	9,547	28,540	121,647	744,091	31,325	6,012	74,927	5,625
	Kansas.....	16	14	4,169	25,449	3,245	6,436	18,827	69,595	472,077	24,318	4,132	49,316	4,357
	South Atlantic....	26	14	2,133	13,918	1,421	2,856	8,453	51,933	375,435	6,296	2,606	29,298	2,309
	Maryland.....	6	4	606	4,027	433	813	2,548	9,414	95,581	1,258	1,885	21,352	1,431
	East South Central	15	13	1,585	9,763	1,127	2,424	6,535	35,777	217,274	3,768	1,709	22,220	1,205
	Kentucky.....	6	4	912	5,954	590	1,236	3,619	24,117	157,132	1,566	1,155	14,149	934
	West South Central	132	103	61,537	398,297	44,816	87,108	273,605	885,231	6,019,787	260,865	60,694	743,377	56,090
	Arkansas.....	6	6	1,154	7,219	883	1,808	5,325	15,622	103,163	4,995	1,238	18,243	1,118
	Louisiana.....	19	16	13,123	88,253	7,922	15,802	50,292	190,981	1,280,655	57,359	12,931	175,988	11,453
	Oklahoma.....	19	18	6,136	35,251	5,179	10,546	29,124	106,606	625,061	21,907	6,897	96,396	7,202
	Texas.....	88	63	41,124	267,574	30,832	58,952	188,864	572,022	4,010,908	176,604	39,627	452,750	36,317
	Mountain.....	52	36	5,669	35,136	4,057	7,905	24,765	97,788	488,670	20,765	5,525	83,727	(D)
	Colorado.....	11	6	591	3,711	460	966	2,873	10,609	56,010	2,982	432	8,722	243
	Utah.....	7	6	1,002	6,206	694	1,371	4,100	22,483	124,040	3,806	1,055	26,502	648
	Pacific.....	64	41	18,783	120,374	13,560	26,596	77,717	300,199	2,113,756	114,772	17,994	248,572	(D)
	California.....	55	35	17,633	112,341	12,782	25,015	73,009	269,563	1,971,168	(D)	17,814	245,884	18,813
2951	Paving mixtures and blocks, total..	563	89	7,797	42,028	5,823	11,708	28,130	112,548	267,676	9,856	4,367	50,260	2,785
	New England.....	49	11	771	4,156	584	1,164	2,918	9,468	23,473	(3)	372	4,223	213
	Massachusetts....	22	7	391	2,116	304	595	1,489	5,722	14,212	(3)	285	3,024	187
	Middle Atlantic....	151	18	1,697	9,959	1,179	2,533	5,895	29,976	72,593	3,355	1,232	16,533	830
	New York.....	76	11	899	5,810	571	1,275	3,185	17,365	39,793	1,713	666	9,897	335
	New Jersey.....	15	1	218	1,333	158	329	776	4,320	11,114	(3)	220	2,958	60
	Pennsylvania....	60	6	580	2,816	450	929	1,934	8,291	21,686	1,426	346	3,677	435
	East North Central	113	19	1,632	9,701	1,158	2,348	5,944	22,025	56,948	2,194	987	11,364	645
	Ohio.....	57	5	497	3,023	337	706	1,768	7,724	21,658	778	329	4,478	286
	Indiana.....	16	2	241	1,384	178	339	857	3,311	7,532	(D)	(2)	(2)	(2)
	Illinois.....	18	5	473	2,911	288	633	1,551	4,990	11,412	(3)	(2)	(2)	(2)
	Michigan.....	18	6	374	2,126	316	587	1,562	5,479	15,186	559	168	1,733	57
	West North Central	24	4	471	2,414	377	647	1,681	5,869	11,636	(3)	238	2,424	127
	South Atlantic....	77	11	1,060	5,027	878	1,931	3,688	14,458	33,547	(D)	599	5,916	204
	Maryland.....	14	3	407	2,031	366	795	1,670	7,050	12,832	(3)	287	2,550	26
	West Virginia....	19	2	154	703	115	256	488	2,002	6,431	(3)	(2)	(2)	(2)
	Florida.....	17	5	266	1,337	224	542	969	2,820	6,503	(3)	(2)	(2)	(2)
	East South Central	42	3	451	1,679	380	743	1,293	5,998	13,024	(D)	219	1,712	185
	Alabama.....	16	3	297	1,060	254	502	847	3,184	6,759	666	167	1,214	117
	West South Central	26	5	302	997	257	415	799	3,040	7,069	401	190	2,051	142
	Louisiana.....	11	2	112	366	97	191	305	887	2,212	(3)	(2)	(2)	(2)
	Mountain.....	11	2	193	1,102	142	299	801	2,940	5,774	(3)	72	579	48
	Pacific.....	70	16	1,220	6,993	868	1,628	5,111	18,774	43,812	693	455	5,456	391
2952	Asphalt felts and coatings, total....	209	128	15,520	77,444	11,541	24,009	54,007	156,487	460,104	6,613	15,730	149,323	16,506
	New England.....	7	5	165	3,380	550	1,268	2,624	6,205	19,029	(3)	760	8,081	764
	Middle Atlantic....	43	25	2,755	14,431	2,122	4,412	10,192	27,111	85,651	1,451	3,248	28,701	4,134
	New York.....	8	5	304	1,622	191	383	880	1,969	7,362	(3)	492	3,868	535
	New Jersey.....	19	13	1,659	8,826	1,281	2,724	6,338	17,366	51,641	1,119	1,888	16,358	2,569
	Pennsylvania....	16	7	792	3,983	650	1,305	2,974	7,776	26,648	(3)	868	8,475	1,026
	East North Central	48	32	5,277	26,224	4,084	8,180	19,293	56,176	149,712	2,651	5,868	54,427	5,826
	Ohio.....	13	8	1,558	7,308	1,180	2,400	5,312	19,607	36,614	(3)	1,795	20,334	759
	Indiana.....	6	4	370	1,838	254	552	1,226	3,343	11,876	(3)	511	3,818	394
	Illinois.....	24	19	3,246	16,687	2,565	5,089	12,454	29,426	95,120	1,854	3,372	28,636	4,490
	Michigan.....	5	1	103	391	85	139	301	838	3,166	(3)	189	1,638	183
	West North Central	16	9	961	4,862	762	1,594	3,406	9,245	28,741	(3)	936	8,924	963
	South Atlantic....	26	14	1,083	5,336	870	1,841	3,974	11,592	42,569	574	867	7,863	644
	Georgia.....	5	4	349	1,607	287	612	1,212	4,178	13,989	(3)	(2)	(2)	(2)
	Florida.....	11	4	207	1,068	166	344	859	2,218	9,190	(3)	188	1,120	(D)
	East South Central	12	6	528	2,111	410	818	1,559	4,196	14,455	(3)	583	6,423	384
	Tennessee.....	7	2	231	887	172	375	685	1,787	6,367	(D)	(2)	(2)	(2)
	West South Central	27	20	2,502	11,313	1,491	3,150	6,220	21,369	61,937	635	1,434	13,918	1,831
	Louisiana.....	4	3	657	3,427	518	1,213	2,531	5,406	18,988	(3)	662	6,454	(D)
	Texas.....	18	12	1,458	6,341	661	1,335	2,624	13,590	34,582	(3)	(2)	(2)	(2)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
2952	Asphalt felts etc.—continued													
	Mountain.....	4	2	124	615	96	208	401	1,070	3,224	( <sup>3</sup> )	238	912	74
	Pacific.....	26	15	1,625	9,172	1,156	2,538	6,338	22,485	57,722	627	1,793	20,072	1,890
	California.....	17	11	1,338	7,712	956	2,112	5,324	18,556	46,791	548	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
2992	Lubricating oils and greases, total.	306	90	7,568	42,349	4,484	8,588	20,441	103,084	281,377	7,230	8,159	85,063	8,002
	New England.....	10	4	192	1,129	100	208	468	2,428	4,898	( <sup>3</sup> )	(NA)	(NA)	(NA)
	Middle Atlantic...	78	27	2,675	15,600	1,678	3,220	8,148	37,151	98,025	1,811	(NA)	(NA)	(NA)
	Pennsylvania....	33	14	1,098	7,241	607	1,231	3,305	16,327	34,285	910	1,053	13,139	1,385
	East North Central	97	35	2,436	14,771	1,186	2,321	5,678	36,831	92,115	(D)	2,440	24,641	2,152
	Illinois.....	28	12	769	4,584	386	739	1,749	12,103	32,288	(D)			
	Wisconsin.....	9	4	294	1,658	94	175	413	6,287	15,723	(D)	296	1,978	145
	West North Central	33	8	758	3,802	463	930	1,964	10,662	31,877	(D)	816	10,720	810
	Missouri.....	13	3	346	1,728	219	436	899	6,242	17,588	( <sup>3</sup> )	366	6,818	315
	South.....	45	11	999	4,278	706	1,266	2,429	8,666	35,324	1,066	(NA)	(NA)	(NA)
	Louisiana.....	6	4	395	2,197	302	608	1,419	4,593	23,333	825	427	5,785	306
	Oklahoma.....	8	2	304	828	247	348	517	1,188	4,715	(D)	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
	West.....	43	5	508	2,769	351	643	1,754	7,352	19,138	647	(NA)	(NA)	(NA)
	California.....	33	5	460	2,412	322	588	1,599	5,643	16,005	( <sup>3</sup> )	388	3,452	287
2999	Petroleum and coal products, nec, total.....	84	33	2,256	10,520	1,762	3,446	7,566	26,903	74,855	1,318	2,009	22,754	1,697
	New England.....	4	...	34	131	27	49	92	176	545	( <sup>3</sup> )	(NA)	(NA)	(NA)
	Middle Atlantic...	11	4	203	979	150	305	681	1,572	4,278	( <sup>3</sup> )	(NA)	(NA)	(NA)
	Pennsylvania....	7	2	159	774	121	251	558	1,190	3,022	( <sup>3</sup> )	200	1,483	246
	East North Central	17	8	562	2,946	403	794	2,019	7,210	27,104	(D)	731	7,743	(D)
	Illinois.....	7	3	275	1,453	194	353	993	4,569	18,397	(D)	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
	Wisconsin.....	4	4	124	595	95	194	429	1,035	5,124	(D)	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
	West North Central	10	7	585	2,743	456	968	1,876	4,988	10,328	(D)	499	3,845	(D)
	Missouri.....	7	5	519	2,535	403	862	1,713	4,688	9,780	( <sup>3</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
	South.....	24	10	630	2,552	543	982	2,024	8,863	24,411	( <sup>3</sup> )	(NA)	(NA)	(NA)
	West.....	18	4	242	1,169	183	348	874	4,094	8,189	( <sup>3</sup> )	(NA)	(NA)	(NA)

Note: Detailed figures may not add to the totals because of independent rounding. <sup>2</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 2911, Petroleum Refining: New England—Maine, 1 (1-19); Vermont, 1 (1-19); Massachusetts, 4 (250-499); Rhode Island, 2 (100-249); West North Central—Minnesota, 6 (500-999); Missouri, 3 (1,142); North Dakota, 2 (250-499); Nebraska, 4 (20-99); South Atlantic—Delaware, 3 (500-999); Virginia, 3 (250-499); West Virginia, 3 (250-499); South Carolina, 1 (20-99); Georgia, 5 (100-249); Florida, 5 (20-99); East South Central—Tennessee, 2 (100-249); Alabama, 4 (100-249); Mississippi, 3 (250-499); Mountain—Montana, 10 (1,056); Wyoming, 14 (2,402); New Mexico, 8 (500-999); Arizona, 2 (1-19); Pacific—Washington, 8 (1,000-2,499); Oregon, 1 (20-99).

SIC 2951, Paving Mixtures and Blocks: New England—Maine, 4 (20-99); New Hampshire, 3 (20-99); Vermont, 1 (20-99); Rhode Island, 4 (20-99); Connecticut, 15 (100-249); East North Central—Wisconsin, 4 (20-99); West North Central—Minnesota, 4 (20-99); Iowa, 12 (20-99); Missouri, 5 (100-249); North Dakota, 1 (20-99); Kansas, 2 (20-99); South Atlantic—Delaware, 1 (20-99); Virginia, 5 (20-99); North Carolina, 8 (20-99); South Carolina, 5 (20-99); Georgia, 8 (20-99); East South Central—Kentucky, 9 (20-99); Tennessee, 8 (20-99); Mississippi, 9 (20-99); West South Central—Arkansas, 3 (20-99); Oklahoma, 3 (20-99); Texas, 9 (100-249); Mountain—Idaho, 2 (1-19); Colorado, 3 (100-249); Arizona, 1 (1-19); Utah, 4 (20-99); Nevada, 1 (1-19); Pacific—Washington, 6 (20-99); Oregon, 2 (20-99); California, 62 (1,124).

SIC 2952, Asphalt Felts and Coatings: New England—Massachusetts, 6 (500-999); Connecticut, 1 (20-99); West North Central—Minnesota, 6 (250-499); Missouri, 9 (500-999); Kansas, 1 (1-19); South Atlantic—Delaware, 2 (20-99); Maryland, 4 (100-249); West Virginia, 1 (100-249); North Carolina, 2 (20-99); South Carolina, 1 (100-249); East South Central—Kentucky, 1 (20-99); Alabama, 3 (100-249); Mississippi, 1 (20-99); West South Central—Arkansas, 4 (250-499); Oklahoma, 1 (20-99); Mountain—Colorado, 1 (20-99); New Mexico, 1 (20-99); Arizona, 2 (1-19); Pacific—Washington, 3 (20-99); Oregon, 6 (100-249).

SIC 2992, Lubricating Oils and Greases: New England—Massachusetts, 7 (20-99); Rhode Island, 1 (20-99); Connecticut, 2 (20-99); Middle Atlantic—New York, 23 (250-499); New Jersey, 22 (1,000-2,499); East North Central—Ohio, 37 (500-999); Indiana, 6 (100-249); Michigan, 17 (100-249); West North Central—Minnesota, 5 (20-99); Iowa, 5 (20-99); North Dakota, 1 (1-19); Nebraska, 2 (20-99); Kansas, 7 (100-249); South—Maryland, 4 (100-249); North Carolina, 1 (1-19); Georgia, 3 (20-99); Florida, 3 (1-19); Kentucky, 2 (1-19); Tennessee, 2 (1-19); Alabama, 3 (1-19); Arkansas, 1 (1-19); Texas, 12 (20-99); West—Colorado, 4 (1-19); Washington, 4 (20-99); Oregon, 2 (1-19).

SIC 2999, Petroleum and Coal Products, NEC: New England—Maine, 1 (1-19); Massachusetts, 1 (1-19); Connecticut, 2 (1-19); Middle Atlantic—New York, 1 (20-99); New Jersey, 3 (20-99); North Central—Ohio, 2 (20-99); Indiana, 1 (1-19); Michigan, 3 (100-249); West North Central—Minnesota, 1 (1-19); North Dakota, 2 (20-99); South—Virginia, 1 (20-99); West Virginia, 5 (100-249); North Carolina, 3 (20-99); Florida, 3 (100-249); Kentucky, 2 (20-99); Arkansas, 4 (20-99); Oklahoma, 3 (1-19); Texas, 3 (100-249); West—Montana, 1 (1-19); Wyoming, 1 (1-19); Colorado, 1 (20-99); Utah, 1 (20-99); Washington, 2 (20-99); California, 12 (100-249).

<sup>2</sup>This State was not shown as a separate line in Table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>3</sup>Less than \$500 thousand.



Table 3.—Detailed Statistics for the United States: 1958

Item	Petroleum refining (SIC 2911)	Paving mixtures and blocks (SIC 2951)	Asphalt felts and coating (SIC 2952)	Lubricating oils and greases (SIC 2992)	Petroleum and coal products, nec (SIC 2999)
Primary product specialization ratio <sup>1</sup> .....	98	94	90	86	95
Coverage ratio <sup>2</sup> .....	98	85	92	325	96
Number of establishments, total.....	446	563	209	306	84
With 1-19 employees.....	133	474	81	216	51
With 20-99 employees.....	111	82	81	74	28
With 100 employees or more.....	202	7	47	16	5
Proprietors and working partners.....Number..	85	94	35	96	24
All employees:					
Number (average for the year).....	146,025	7,797	15,520	7,568	2,256
Payroll.....\$1,000..	944,332	42,028	77,444	42,349	10,520
Production workers:					
Number (average for the year).....	106,898	5,823	11,541	4,484	1,762
March.....	107,974	4,117	10,292	4,411	1,858
May.....	107,795	6,134	11,977	4,479	1,731
August.....	106,978	6,989	12,642	4,583	1,689
November.....	104,727	6,011	11,248	4,501	1,725
Man-hours.....1,000..	207,609	11,708	24,009	8,588	3,446
January-March.....do....	53,072	1,868	4,956	2,112	875
April-June.....do....	52,139	3,102	6,330	2,094	868
July-September.....do....	51,208	3,638	6,928	2,067	816
October-December.....do....	51,170	2,993	5,741	2,218	870
Wages.....\$1,000..	648,278	28,130	54,007	20,441	7,566
Cost of materials, etc., total.....do....	12,249,444	154,949	304,421	177,521	48,715
Materials, parts, containers, and supplies consumed.....do....	11,584,157	130,890	261,592	159,271	40,293
Cost of resales.....do....	407,949	8,985	34,386	15,745	6,436
Fuels consumed.....do....	168,777	7,101	6,293	1,363	1,282
Electricity purchased.....do....	71,631	2,726	2,043	756	617
Contract work.....do....	16,159	5,234	107	386	85
Value of shipments (including resales), total.....do....	14,539,055	267,676	<sup>r</sup> 460,104	281,377	74,855
Value of resales.....do....	432,805	12,330	<sup>r</sup> 40,013	21,171	7,016
Value added by manufacture, adjusted.....do....	2,119,402	112,548	<sup>r</sup> 156,487	103,084	26,903
Manufacturers' inventories:					
Beginning of year, total.....do....	1,783,646	8,950	37,758	37,827	16,072
Finished products.....do....	1,016,727	4,319	18,929	18,969	3,303
Work-in-process.....do....	410,612	378	1,572	2,999	247
Materials, supplies, fuel, etc.....do....	356,307	4,253	17,257	15,859	<sup>r</sup> 12,522
End of year, total.....do....	1,572,935	9,132	37,448	36,775	19,583
Finished products.....do....	876,817	4,026	19,891	18,477	4,139
Work-in-process.....do....	380,313	492	1,440	2,719	174
Materials, supplies, fuel, etc.....do....	315,805	4,614	16,117	15,579	15,270
Expenditures for plant and equipment, total.....do....	648,500	10,609	6,661	7,397	1,349
New, total.....do....	646,909	9,856	6,613	7,230	1,318
New structures and additions to plant.....do....	515,707	3,785	1,154	3,964	684
New machinery and equipment.....do....	131,202	6,071	5,459	3,266	634
Used plant and equipment.....do....	<sup>r</sup> 1,591	753	48	167	31

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>For explanation of this figure see table 5A, footnote 3.



## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2911	Petroleum refining:											
	Number of establishments.....	446	64	32	37	64	47	81	56	32	20	13
	All employees:											
	Number.....	146,025	101	209	553	2,054	3,146	12,930	20,555	<u>51,292</u>	(D)	55,185
	Payroll.....\$1,000..	944,332	400	1,173	3,140	11,600	17,831	78,408	134,706	<u>330,833</u>	(D)	366,241
	Value added, adjusted..do....	2,119,402	906	3,489	6,139	24,770	40,065	264,501	330,828	<u>806,573</u>	(D)	642,131
	Value of shipments.....do....	14,539,055	3,321	11,310	35,572	158,896	277,818	1,404,490	2,393,484	<u>6,046,093</u>	(D)	4,208,071
	Capital expend., new...do....	646,909	( <sup>1</sup> )	( <sup>1</sup> )	849	2,697	19,155	103,857	102,815	<u>188,215</u>	(D)	228,871
2951	Paving mixtures and blocks:											
	Number of establishments.....	563	144	195	135	60	22	7	...	...	...	...
	All employees:											
	Number.....	7,797	360	1,343	1,856	1,769	1,529	940	...	...	...	...
	Payroll.....\$1,000..	42,028	1,987	7,059	9,963	8,296	5,135	...	...	...	...	...
	Value added, adjusted..do....	112,548	7,678	21,392	24,355	23,478	20,031	15,614	...	...	...	...
	Value of shipments.....do....	267,676	21,340	60,468	63,814	57,281	40,140	24,633	...	...	...	...
	Capital expend., new...do....	9,856	1,434	2,584	2,485	2,129	749	( <sup>1</sup> )	...	...	...	...
2952	Asphalt felts and coatings:											
	Number of establishments.....	209	30	27	24	24	57	35	11	...	1	...
	All employees:											
	Number.....	15,520	82	187	307	724	4,011	4,933	<u>5,276</u>	...	(D)	...
	Payroll.....\$1,000..	77,444	347	901	1,381	3,300	20,100	24,422	<u>26,993</u>	...	(D)	...
	Value added, adjusted..do....	<sup>r</sup> 156,487	684	1,833	4,846	6,117	<sup>r</sup> 42,075	51,460	<u>49,472</u>	...	(D)	...
	Value of shipments.....do....	<sup>r</sup> 460,104	2,347	6,857	16,449	20,427	<sup>r</sup> 131,749	156,485	<u>125,790</u>	...	(D)	...
	Capital expend., new...do....	6,613	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,381	3,053	<u>1,717</u>	...	(D)	...
2992	Lubricating oils and greases:											
	Number of establishments.....	306	109	47	60	51	23	14	1	1	...	...
	All employees:											
	Number.....	7,568	228	314	827	1,592	<u>4,607</u>	(D)	(D)	(D)	...	...
	Payroll.....\$1,000..	42,349	882	1,583	4,496	9,249	<u>26,139</u>	(D)	(D)	(D)	...	...
	Value added, adjusted..do....	103,084	1,576	3,273	13,135	24,488	<u>60,612</u>	(D)	(D)	(D)	...	...
	Value of shipments.....do....	281,377	4,848	8,433	32,066	63,422	<u>172,608</u>	(D)	(D)	(D)	...	...
	Capital expend., new...do....	7,230	( <sup>1</sup> )	( <sup>1</sup> )	1,420	590	<u>4,650</u>	(D)	(D)	(D)	...	...
2999	Petroleum and coal products, nec:											
	Number of establishments.....	84	21	14	16	25	3	4	1	...	...	...
	All employees:											
	Number.....	2,256	41	101	238	754	<u>1,122</u>	(D)	(D)	...	...	...
	Payroll.....\$1,000..	10,520	132	444	1,122	3,054	<u>5,768</u>	(D)	(D)	...	...	...
	Value added, adjusted..do....	26,903	261	660	2,783	6,960	<u>16,239</u>	(D)	(D)	...	...	...
	Value of shipments.....do....	74,855	581	1,563	7,826	24,349	<u>40,536</u>	(D)	(D)	...	...	...
	Capital expend., new...do....	1,318	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	967	<u>230</u>	(D)	(D)	...	...	...

Note: Detailed figures may not add to totals because of independent rounding.

<sup>r</sup>Revised.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
2911	Petroleum refining.....1958..	14,539,055	13,825,227	242,769	471,059	98	14,133,767	13,825,227	308,740	98
	.....1954..	12,182,245	11,613,402	130,356	438,487	99	11,865,167	11,613,402	251,765	98
2951	Paving mixtures and blocks.....1958..	267,676	225,766	13,644	28,266	94	265,902	225,766	40,136	85
	.....1954..	133,178	113,076	3,818	16,284	97	120,717	113,076	7,641	94
2952	Asphalt felts and coatings.....1958..	460,104	376,289	41,903	41,912	90	408,130	376,289	31,841	92
	.....1954..	431,607	364,585	35,130	31,892	91	388,237	364,585	23,652	94
2992	Lubricating oils and greases...1958..	281,377	223,588	34,908	22,881	86	882,553	223,588	658,965	<sup>3</sup> 25
	.....1954..	265,111	195,450	27,828	41,853	87	<sup>4</sup> 797,317	195,450	896,762	<sup>3</sup> 25
2999	Petroleum and coal products, nec.....1958..	74,855	64,414	3,061	7,380	95	66,976	64,414	2,562	96
	.....1954..	63,496	54,734	3,660	5,102	94	61,241	54,734	6,507	89

<sup>1</sup>Revised.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>4</sup>Included in this industry are lubricating oils and greases which are also primary to Industry 2911, Petroleum Refining. A 1958 coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would total 98 percent; 73 percent by Industry 2911, and 25 percent by Industry 2992. The remaining 2 percent was shipped by establishments in other industries.

<sup>5</sup>Excludes product class 29118 which was formerly considered primary to Industry 2992.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Petroleum refining industry	Petroleum refining (SIC 2911)	Lubricating oils and grease (SIC 2992)	Other industries	All industries
	Total shipments and receipts of the industry.....	14,539,055	281,377	xxx	xxx
	Primary products.....	13,825,227	<sup>1</sup> 223,588	76,386	14,133,967
29111	Gasoline and jet fuel.....	7,825,021	...	...	7,825,021
29112	Kerosene.....	411,720	...	...	411,720
29113	Distillate fuel oil.....	2,489,178	...	1,708	2,490,886
29114	Residual fuel oil.....	817,184	...	...	817,184
29115	Liquefied petroleum gases made in refineries.....	518,282	...	<sup>2</sup> 41,747	560,029
29116	Lubricating and similar oils.....	583,679	169,571	<sup>3</sup> 19,112	772,362
29926	Lubricating greases.....	54,356	44,465	1,526	100,347
29117	Unfinished oils and lubricating oil base stock.....	433,193	<sup>4</sup> 5,655	2,037	440,885
29927	Asphalt.....	283,654	...	975	284,629
29118	Other lubricating oils and greases, nsk.....	...	9,552	292	9,844
29119	Other finished petroleum products, including waxes.....	408,960	<sup>5</sup> 15,111	<sup>4</sup> 8,989	421,060
	Secondary products.....	242,769	<sup>1</sup> 25,908	xxx	xxx
28151	Cyclic (coal tar) intermediates.....	18,906	...	xxx	xxx
2818-	Industrial organic chemicals, nec.....	105,821	( <sup>5</sup> )	xxx	xxx
28191	Synthetic ammonia, nitric acid, and ammonium compounds.....	<sup>1</sup> 17,789	...	xxx	xxx
28199	Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, nec.....	<sup>1</sup> 12,783	( <sup>5</sup> )	xxx	xxx
2821-	Plastics materials, synthetic resins, and nonvulcanizable elastomers.....	7,210	1,219	xxx	xxx
28423	Specialty cleaning and sanitation products.....	( <sup>5</sup> )	2,432	xxx	xxx
28430	Surface active and finishing agents.....	30,168	1,758	xxx	xxx
28993	Essential oils, fireworks, and pyrotechnics, and chemicals and chemical preparations, nec.....	3,455	9,162	xxx	xxx
29510	Paving mixtures and blocks.....	11,160	...	xxx	xxx
2952-	Asphalt felts and coatings.....	2,712	( <sup>5</sup> )	xxx	xxx
	Other secondary products.....	<sup>6</sup> 32,765	2,571	xxx	xxx



## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Petroleum refining industry—Continued	Petroleum refining (SIC 2911)	Lubricating oils and grease (SIC 2992)	Other indus- tries	All indus- tries
99989 93000	Miscellaneous receipts..... Resales..... Contract work..... Other miscellaneous receipts.....	471,059 432,805 7,642 30,612	31,881 21,171 993 717	xxx xxx xxx xxx	xxx xxx xxx xxx
Prod. class code	Paving mixtures and blocks industry	Paving mix- tures and blocks (SIC 2951)	Other indus- tries	All indus- tries	
29510	Total shipments and receipts of the industry..... Paving mixtures and blocks..... Secondary products.....	267,676 225,766 13,644	xxx 740,136 xxx	xxx 265,902 xxx	
2952- 32730	Asphalt felts and coatings..... Ready-mixed concrete..... Other secondary products.....	2,479 3,320 7,845	xxx xxx xxx	xxx xxx xxx	
99989 93000	Miscellaneous receipts..... Resales..... Contract work..... Other miscellaneous receipts.....	28,266 12,330 9,864 6,072	xxx xxx xxx xxx	xxx xxx xxx xxx	
Prod. class code	Asphalt felts and coatings industry	Asphalt felts and coatings (SIC 2952)	Other indus- tries	All indus- tries	
29521 29522 29523 29520	Total shipments and receipts of the industry..... Primary products..... Asphalt and tar saturated felts and boards for nonbuilding use..... Asphalt and tar coatings, cements, and pitches..... Asphalt and tar roofing and siding products..... Asphalt felts and coatings, nsk.....	7460,104 376,289 (D) 50,678 306,646 (D)	xxx 31,841 (D) 14,344 10,788 (D)	xxx 408,130 20,465 65,112 317,434 5,119	
28511 29510 3292-	Secondary products..... Paints, varnishes, lacquers, and enamels - trade sale products..... Paving mixtures and blocks..... Asbestos products..... Other secondary products.....	41,903 2,800 8,644 14,550 15,909	xxx xxx xxx xxx xxx	xxx xxx xxx xxx xxx	
99989 93000	Miscellaneous receipts..... Resales..... Contract work..... Other miscellaneous receipts.....	741,912 740,013 1,097 802	xxx xxx xxx xxx	xxx xxx xxx xxx	
Prod. class code	Petroleum and coal products industry	Petroleum and coal products, nec (SIC 2999)	Other indus- tries	All indus- tries	
29990	Total shipments and receipts of the industry..... Products of petroleum and coal, nec..... Secondary products..... Miscellaneous receipts.....	74,855 64,414 3,061 7,380	xxx 2,562 xxx xxx	xxx 66,976 xxx xxx	

<sup>1</sup>Revised.<sup>1</sup>Product class codes 29118 and 29110 are not primary to Industry 2992, and are therefore excluded from the total for primary products and included in the total for secondary products.<sup>2</sup>Includes the following industries which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 2818, Organic Chemicals, NEC, and 2821, Plastics Materials.<sup>3</sup>Includes \$3 million shipped by Industry 2842, Polishes and Sanitation Goods; and \$5 million by Industry 2899, Chemical Preparations, NEC. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 2818, Organic Chemicals, NEC.<sup>4</sup>Includes the following industry which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 2844, Toilet Preparations.<sup>5</sup>Included in other secondary products to avoid disclosure of figures for individual companies.<sup>6</sup>Includes the following product class which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 28220, Synthetic rubber (vulcanizable elastomers).<sup>7</sup>Includes \$11 million shipped by Industry 2911, Petroleum Refining; \$9 million by Industry 2952, Asphalt Felts and Coatings; \$6 million by Industry 3273, Ready-Mixed Concrete; \$5 million by Mineral Industry 1422, Crushed and Broken Limestone; and \$5 million by Mineral Industry 1442, Common Sand and Gravel.<sup>8</sup>Includes \$3 million shipped by Industry 2852, Putty and Caulking Compounds.<sup>9</sup>Includes \$7 million shipped by Industry 2814, Cyclic (coal tar) Crudes.<sup>10</sup>Includes the following product class which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 2814, Cyclic (coal tar) Crudes.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	1958				1954			
			Receipts <sup>1</sup> (quantity)	Total shipments including interplant transfers		Net shipments <sup>2</sup> (quantity)	Receipts <sup>1</sup> (quantity)	Total shipments including interplant transfers		Net shipments <sup>2</sup> (quantity)
				Quantity	Value (excluding tax) (\$1,000)			Quantity	Value (excluding tax) (\$1,000)	
2911----	Petroleum products, total.....		xxx	xxx	14,133,967	xxx	xxx	xxx	11,865,167	xxx
29111--	Gasoline and jet-propulsion fuel...	1,000 bbls.	38,768	1,525,508	7,825,021	1,486,740	*44,205	1,292,166	6,548,701	*1,247,961
2911111	Aviation gasoline (except jet- propulsion fuel).....	.....do.....	37,560	113,724	733,058	1,408,949	2,592	86,092	607,397	83,500
2911131	Automotive gasoline.....	.....do.....		1,299,745	6,628,060		*14,983	1,129,815	5,601,148	*1,114,832
2911198	Other finished gasolines (including finished base stocks and blending agents) <sup>3</sup> .....	.....do.....		33,040	157,573		25,585	29,625	149,878	4,040
2911151	Jet-propulsion fuel.....	.....do.....	1,208	78,999	306,330	77,791	1,045	46,634	190,278	45,589
2911211	Kerosene (including range oil) <sup>4</sup> ....	.....do.....	2,156	102,549	411,720	100,393	2,004	109,907	434,852	107,903
29113--	Distillate fuel oil.....	.....do.....	18,521	661,316	2,490,886	642,795	*10,451	556,968	2,064,298	*546,517
2911311	Grade No. 1 (including P.S. 100).	.....do.....	xxx	57,622	238,175	xxx	*856	65,012	269,699	*64,156
2911331	Grades No. 2, 3, and 4 (including P.S. 200).....	.....do.....	xxx	453,380	1,692,118	xxx	*4,791	338,741	1,233,727	*333,950
2911351	Diesel-type fuel oil (light).....	.....do.....	xxx	132,985	497,449	xxx	*1,297	133,031	489,429	*131,734
2911398	Other distillate fuel oils (in- cluding light gas-enrichment oil)	.....do.....	xxx	17,329	63,144	xxx	3,507	20,184	71,443	16,677
29114--	Residual fuel oil.....	.....do.....	17,295	350,892	817,184	333,597	14,390	398,898	787,783	384,508
2911411	Grade No. 5 (including Navy special and P.S. 300).....	.....do.....	xxx	46,940	118,247	xxx	758	53,572	117,630	52,814
2911431	Grade No. 6 (including Bunker C and P.S. 400).....	.....do.....	xxx	264,254	592,192	xxx	12,171	303,997	577,854	291,826
2911451	Diesel-type fuel oil (heavy).....	.....do.....	xxx	8,820	24,345	xxx	322	6,971	18,011	6,649
2911498	Other residual fuel oils (includ- ing heavy gas-enrichment oil)...	.....do.....	xxx	30,568	81,361	xxx	1,139	34,358	74,288	33,219
2911400	Residual fuel oil, nsk.....	.....do.....	xxx	310	1,039	xxx	xxx	xxx	xxx	xxx
29115--	Liquefied petroleum gases <sup>5</sup> .....	.....do.....	22,363	106,177	560,029	83,814	22,266	65,314	394,826	143,048
2911511	For direct internal-combustion engine use (not included in gasoline above).....	.....do.....	xxx	5,684	10,524	xxx	xxx	977	2,337	xxx
2911531	Chemical raw material (including synthetic rubber components): Aromatics <sup>6</sup> .....	.....do.....	xxx	7,962	64,759	xxx	xxx	9,872	105,068	xxx
2911551	Aliphatics <sup>6</sup> .....	.....do.....	xxx	3,783	41,960	xxx	xxx	4,080	55,402	xxx
2911555	Ethylene and its derivatives.....	.....do.....	xxx	26,098	273,219	xxx	xxx	20,016	151,842	xxx
2911598	Other liquefied gases.....	.....do.....	xxx	62,650	169,567	xxx	xxx	30,369	80,177	xxx
29118--	Unfinished oils, and lubricating oil base stock.....	.....do.....	107,612	93,367	440,885	-14,245	83,934	65,788	294,875	-18,146
2911811	Unfinished oils (including crack- ing stock and unfinished gaso- line stocks).....	.....do.....	96,508	71,396	276,913	-25,112	71,343	44,165	145,524	-27,178
2911851	Lubricating-oil petroleum base stocks (for blending, compound- ing and grease manufacture) <sup>8</sup> ....	.....do.....	25,000	21,971	163,972	-3,029	12,591	21,623	149,351	9,032
29119--	Asphalt.....		xxx	xxx	284,629	xxx	xxx	xxx	221,681	xxx
2911911	Asphalt of 200 penetration and over <sup>9</sup> .....	1,000 bbls.	xxx	37,586	119,487	xxx	664	34,072	101,706	33,408
2911951	Asphalt of less than 200 penetration <sup>10</sup> .....	1,000 tons.	xxx	8,645	160,847	xxx	18	8,416	119,975	8,398
2911900	Asphalt, nsk.....		xxx	xxx	4,295	xxx	xxx	xxx	xxx	xxx
29110--	Other finished petroleum products..	1,000.....	xxx	xxx	421,060	xxx	xxx	xxx	320,834	xxx
2911011	Petrolatum.....	1,000 lbs..	182,974	540,375	22,406	357,401	*128,936	501,465	17,368	*372,529
2911021	Petroleum coke.....	1,000 short tons.....	xxx	3,514	39,735	xxx	...	2,495	19,149	2,495
2911031	Road oil <sup>11</sup> .....	1,000 bbls.	xxx	10,371	29,166	xxx	46	12,562	29,743	12,516
2911041	Still gas.....	Million cu. ft.....	xxx	57,994	16,101	xxx	...	27,986	7,438	27,986
2911051	Naphtha solvents <sup>12</sup> .....	1,000 bbls.	xxx	20,397	135,651	xxx	1,426	18,511	107,886	17,085
2911061	Microcrystalline wax <sup>13</sup> .....	1,000 lbs..	119,335	290,087	27,500	1,596,538	16,854	196,193	17,579	179,339
2911071	Refined and semi-refined crystalline wax.....	.....do.....		1,212,880	75,723		30,466	1,072,879	70,725	1,042,413
2911081	Crude-scale crystalline wax.....	.....do.....		212,906	10,226		25,036	293,238	12,917	268,202
2911098	Other finished petroleum products		xxx	xxx	64,552	xxx	xxx	xxx	38,029	xxx

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958				1954			
			Receipts <sup>1</sup> (quantity)	Total shipments including interplant transfers		Net shipments <sup>2</sup> (quantity)	Receipts <sup>1</sup> (quantity)	Total shipments including interplant transfers		Net shipments <sup>2</sup> (quantity)
				Quantity	Value (excluding tax) (\$1,000)			Quantity	Value (excluding tax) (\$1,000)	
2911---	Petroleum products—Continued									
29116-- 29926--	Lubricants and similar oils <sup>14</sup> .....	1,000 bbls.	xxx	xxx	772,362	xxx	(NA)	52,324	697,013	(NA)
2911611	Containing petroleum oils.....	....do....	xxx	52,946	748,185	xxx	5,033	51,788	681,535	46,755
	Made in petroleum refineries...	....do....	2,718	44,993	583,345	42,275	1,417	44,482	544,151	43,065
2992611	Made in lubricants, nec, industry.....	....do....	2,146	7,132	149,188	4,986	3,197	<sup>15</sup> 6,798	<sup>15</sup> 126,840	3,601
	Made in other manufacturing industries.....	....do....	xxx	821	15,652	xxx	419	508	10,544	89
2911651	Containing animal and vegetable oils only.....	....do....	xxx	356	<sup>r</sup> 17,007	xxx	(NA)	536	15,478	(NA)
	Made in petroleum refineries...	....do....	xxx	( <sup>16</sup> )	( <sup>16</sup> )	xxx	...	243	1,900	243
2992651	Made in lubricants, nec, industry.....	....do....	114	300	15,228	186	113	275	13,034	162
	Made in other manufacturing industries.....	....do....	xxx	<sup>16</sup> 56	<sup>16</sup> 1,779	xxx	(NA)	18	544	(NA)
2992600	Lubricants and similar oils, nsk.	....do....	xxx	xxx	7,170	xxx	xxx	( <sup>15</sup> )	( <sup>15</sup> )	xxx
29117 29927	Lubricating greases <sup>17</sup> .....	1,000 lbs..	xxx	xxx	100,347	xxx	(NA)	1,101,082	100,304	(NA)
2911711	Containing petroleum oils.....	....do....	xxx	953,367	95,277	xxx	110,315	1,084,309	98,645	973,994
	Made in petroleum refineries...	....do....	10,469	631,605	54,270	<sup>r</sup> 621,136	23,940	607,242	52,966	583,302
2992711	Made in lubricants, nec, industry.....	....do....	(NA)	321,762	41,007	xxx	82,977	<sup>18</sup> 465,057	<sup>18</sup> 44,278	382,080
	Made in other manufacturing industries.....	....do....	(NA)			xxx	3,398	12,010	1,401	8,612
2992751	Containing animal and vegetable oils only.....	....do....	xxx	21,349	2,702	xxx	(NA)	16,773	1,659	(NA)
	Made in lubricants, nec, industry.....	....do....	(NA)	21,349	2,702	xxx	(NA)	11,437	1,208	(NA)
	Made in other manufacturing industries.....	....do....	(NA)			xxx	(NA)	5,336	451	(NA)
2992700	Lubricating greases, nsk.....	....do....	xxx	xxx	2,368	xxx	xxx	( <sup>18</sup> )	( <sup>18</sup> )	xxx
2992000	Lubricants, nec, nsk.....	....do....	xxx	xxx	9,844	xxx	xxx	( <sup>15</sup> )	( <sup>15</sup> )	xxx

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2951---	Paving mixtures and blocks.....	.....	xxx	265,902	xxx	120,717
2951011	Liquid asphalt and tar paving materials:					
2951015	Emulsified asphalt <sup>19</sup> .....	1,000 bbls.	6,544	34,257	4,751	21,644
2951051	Other liquid asphalt and tar paving materials.....	....do....	2,528	14,687	1,665	9,325
2951098	Asphalt and tar paving mixtures and blocks.....	.....	xxx	195,844	xxx	<sup>20</sup> 73,907
2951000	Other paving mixtures and blocks, except brick, concrete, granite or stone.....	.....	xxx	5,432	xxx	15,841
2951000	Paving mixtures and blocks, nsk.....	.....	xxx	15,682	xxx	388,237
2952---	Asphalt felts and coatings, total.....	.....	xxx	408,130	xxx	<sup>21</sup> 107
29521--	Asphalt and tar saturated felts and boards for nonbuilding use.....	.....	xxx	20,465	xxx	( <sup>21</sup> )
2952111	Felts for other than building purposes (automotive, etc.).....	Short tons.	85,750	10,577	xxx	( <sup>21</sup> )
2952131	Asphalt and tar products, except felts, coating, cement, for nonbuilding use (i.e. automotive, etc.).....	.....	xxx	8,905	xxx	107
2952100	Asphalt and tar saturated felts and boards for nonbuilding use, nsk.....	.....	xxx	983	xxx	41,928
29522--	Asphalt and tar coatings, cements, and pitches.....	.....	xxx	65,112	xxx	9,939
2952211	Solid asphalt roof cement.....	Short tons.	280,342	12,149	331,988	( <sup>22</sup> )
2952231	Coal tar roofing pitch.....	.....	xxx	( <sup>22</sup> )	xxx	17,077
2952251	Roofing coatings:					
2952255	Fibrous.....	Short tons.	553,805	24,945	xxx	8,849
2952200	Non-fibrous.....	....do....	550,212	19,453	xxx	226,063
29523--	Asphalt and tar coatings, cements, and pitches, nsk.....	.....	xxx	228,565	xxx	<sup>20</sup> 346,202
2952311	Asphalt roofing:					
2952313	Smooth-surfaced roll roofing and cap sheet (including sanded, talc, mica, and other fine material surfacing.....	1,000 sq...	10,246	17,752	11,949	20,002
2952315	Mineral-surfaced roll roofing and cap sheet (including 17" and 19" selvage edged).....	....do....	13,148	30,379	12,937	28,675
2952317	Strip shingles, all styles.....	....do....	31,047	152,435	29,770	144,674
2952317	Individual shingles, all styles.....	....do....	4,348	19,862	4,448	20,324

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2952---	Asphalt felts and coatings, total—Continued					
	Asphalt and tar roofing and siding products—Continued					
	Asphalt building sidings:					
2952331	Roll form and shingle form, all patterns.....	....do....	1,071	2,980	xxx	3,998
2952335	Mineral-surfaced insulating board and base siding (all types and finishes).....	....do....	1,504	18,759	2,303	23,914
	Asphalt and tar saturated felts; for roofing and siding:					
2952351	Asphalt.....	Short tons	881,141	53,535	911,367	67,738
2952355	Tar.....	....do....	103,597	6,966	164,304	14,646
2952398	Other asphalt and tar products for roofing and siding (including board products and sheathing).....	....do....	364,794	12,985	xxx	2122,231
2952300	Other asphalt and tar roofing and siding products, nsk.....	.....	xxx	1,781		
2952000	Asphalt felts and coatings, nsk.....	.....	xxx	5,119		

Product code	Product	Unit of measure	1958			1954		
			Production (quantity)	Total shipments including inter-plant transfers		Production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2999---	Products of petroleum and coal, nec, total.....	.....	xxx	xxx	66,976	xxx	xxx	61,241
2999011	Fuel briquets.....	1,000 tons	231,331	231,314	2319,591	231,360	231,362	2315,919
2999021	Packaged fuel.....	....do....						
2999098	Other petroleum and coal products, including calcined petroleum coke.....	.....						
2999000	Products of petroleum and coal, nec, nsk.....	.....	xxx	xxx	2446,314	xxx	xxx	2445,322
			xxx	xxx	1,071	xxx	xxx	xxx

NA Not available.

<sup>1</sup>Reporting companies were requested to classify items in the same manner as billed by the shipper regardless of how the refinery (or blending and compounding establishments) would otherwise classify them.

<sup>2</sup>Represents the difference between "Total shipments" (Quantity) and "Receipts" (Quantity).

<sup>3</sup>Includes all finished gasolines (other than aviation and automotive gasoline), finished base stocks, and blending agents such as alkylate, polymers (dimer, codimer, etc.), hydropolymers (hydrodimer, hydrocodimer, etc.) cumene, isopetane, isohexane, neohexane, isooheptane, iso-octane, motor benzol (benzene), and other blending agents derived from petroleum (excludes natural gasoline).

<sup>4</sup>Includes range oils, signal oil, mineral seal oil, mineral colza oil, longtime burning oil, 300<sup>0</sup> oil, and insecticide base.

<sup>5</sup>Includes ethane, propane, propene, butane, butene, propane-butane mixtures, pentane, butadiene, and other liquefied hydrocarbon gases. Receipts and shipments exclude liquefied petroleum gases from natural gasoline plants.

<sup>6</sup>Detailed product statistics for liquefied gases used as chemical raw material are published by the United States Tariff Commission in the report "Synthetic Organic Chemicals, United States Production and Sales."

<sup>7</sup>Includes such products as cracking stock, unfinished gasoline, requiring further distillation, naphtha stocks, soaps, wax distillate, and other unfinished petroleum oils. Excludes lubricating oil base stocks, natural gasoline and cycle condensates. Although respondents were requested to report receipt in the same manner as billed by the shipper, the figures indicate that items billed as other oils by the shipper were sometimes reported as receipts of "unfinished oils" or "lubricating oil base stock" for the refinery receiving these oils.

<sup>8</sup>Includes light, medium, neutral, heavy neutral, and residual stocks.

<sup>9</sup>Includes flux for paving, roofing, waterproofing, mastic, and other purposes; cut-back asphalt, emulsified asphalt and fluxes made in petroleum refineries, and other liquid asphaltic products except road oil and fuel oil used for heating purposes.

<sup>10</sup>Includes asphalt for paving, roofing, waterproofing, briquetting, mastic, pipe coating, molding composition, and other heavy asphalt products.

<sup>11</sup>Represents residual asphaltic oil used for surface treatment of road and highways.

<sup>12</sup>Includes petroleum ether, rubber solvent, mineral spirits (petroleum spirits), varnish makers' and painters' naphtha, high-solveny naphtha, benzol diluent, lacquer diluent, cleaners' naphtha, stoddard solvent, extraction solvents, and other petroleum distillates shipped as solvents.

<sup>13</sup>Represents amorphous paraffin of melting point not under 145<sup>0</sup>.

<sup>14</sup>Includes oils for lubricating purposes and such nonlubrication purposes as transformer oil, hydraulic oil, processing oil, quenching oil, and liquid rust preventative.

<sup>15</sup>Product codes 2992600 and 2992000 included in code 2992611 for 1954.

<sup>16</sup>Lubricants and similar oils containing animal and vegetable oils made in petroleum refineries are included in lubricants and similar oils containing animal and vegetable oils made in other manufacturing industries.

<sup>17</sup>Includes greases for aviation, automotive, industrial, and railroad uses; launching grease, and cutting, drawing, and grinding compounds and paste. Also includes paste rust-preventative compounds and thread compounds. See also footnote 13.

<sup>18</sup>Product code 2992700 included in code 2992711 for 1954.

<sup>19</sup>Excludes quantities produced in petroleum refineries, data for which are included in the statistics for code 2911911, Asphalt of 200 penetration and over, in Industry 2911, Petroleum Refining.

<sup>20</sup>Excludes data reported by establishments classified in the Mineral Industries.

<sup>21</sup>Product codes 2952111 and 2952131 included with code 2952398 for 1954.

<sup>22</sup>Product code 2952231 included with code 2952200.

<sup>23</sup>Includes fuel briquets made from materials such as coal, charcoal, sawdust, etc., but excludes fuel briquets and packaged fuel produced by establishments classified as nonmanufacturing (See text).

<sup>24</sup>Includes petroleum drying oils, calcined coke, and asphaltic plastic compounds.



(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

See footnotes at end of table.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		
Unfinished oils, and lubricating oil base stock (29118)--Continued United States, total-- Continued			Other finished petroleum products, including waxes (29110): United States, total:			Lubricants and similar oils (29116 and 29926)-- Continued	1958 <sup>1</sup>	1954	
	1955.....	365,172		1958.....	421,060		289,057	239,417	
	1954.....	294,875		1957.....	403,380		( <sup>2</sup> )	5,084	
	1952.....	267,965		1956.....	378,464		( <sup>2</sup> )	51,075	
	1951.....	291,176		1955.....	356,224		36,050	33,685	
	1950.....	210,606		1954.....	320,834		195,003	149,573	
	1947.....	214,666		1952.....	300,933		86,158	72,643	
				1951.....	325,422		80,658	68,056	
				1950.....	266,200		Value of shipments		
	1958 <sup>1</sup>	1954		1947.....	234,904				
Northeast.....	62,245	54,345		1958 <sup>1</sup>	1954	Lubricating greases (29117 and 29927): United States, total:			
Pennsylvania.....	24,453	16,185	Northeast.....	85,535	87,313		1958.....	100,347	
East North Central.....	16,598	15,555	New Jersey.....	28,759	( <sup>2</sup> )		1957.....	111,040	
Ohio.....	11,492	11,811	Pennsylvania.....	50,734	36,352		1956.....	110,967	
West North Central.....	9,738	4,374	East North Central.....	65,915	( <sup>2</sup> )		1955.....	108,392	
Kansas.....	( <sup>2</sup> )	3,461	Ohio.....	11,725	( <sup>2</sup> )		1954.....	100,304	
South.....	216,012	148,649	Illinois.....	20,861	17,324		1947.....	92,345	
Arkansas.....	3,753	( <sup>2</sup> )	Michigan.....	7,082	( <sup>2</sup> )		1958 <sup>1</sup>	1954	
Louisiana.....	49,585	( <sup>2</sup> )	West North Central.....	16,963	( <sup>2</sup> )		20,526	25,072	
Oklahoma.....	12,141	( <sup>2</sup> )	South Atlantic.....	5,223	( <sup>2</sup> )		( <sup>2</sup> )	5,124	
Texas.....	136,017	96,722	East South Central.....	3,463	( <sup>2</sup> )		New York.....	4,418	
Mountain.....	2,341	...	West South Central.....	172,387	( <sup>2</sup> )	New Jersey.....	7,114		
Pacific.....	133,951	71,952	Arkansas.....	2,787	1,612	Pennsylvania.....	10,945		
Asphalt (29119): United States, total:	Value of shipments		Louisiana.....	27,324	( <sup>2</sup> )	East North Central.....	19,958	19,730	
	1958.....	284,629	Oklahoma.....	28,738	( <sup>2</sup> )	Ohio.....	6,605	5,996	
	1957.....	304,236	Texas.....	113,538	63,479	Indiana.....	6,634	6,647	
	1956.....	281,847	Mountain.....	11,281	( <sup>2</sup> )	Michigan.....	3,213	3,452	
	1955.....	233,933	Wyoming.....	6,936	( <sup>2</sup> )	West North Central.....	7,010	8,841	
	1954.....	221,681	Utah.....	1,998	( <sup>3</sup> )	Missouri.....	4,558	3,209	
	1953.....	198,326	Pacific.....	60,293	( <sup>2</sup> )	South.....	39,794	36,092	
	1952.....	191,620	Value of shipments		Louisiana.....	7,670	7,462		
	1951.....	178,553	Lubricants and similar oils (29116 and 29926): United States, total:			Oklahoma.....	4,244	4,210	
	1950.....	148,067		1958.....	772,362	Texas.....	23,607	22,227	
	1947.....	130,344		1957.....	788,863	West.....	13,059	10,568	
				1956.....	784,556	Value of shipments			
				1955.....	742,529				
				1954.....	697,013	Paving mixtures and blocks (29510): United States, total:	1958.....	265,902	
				1947.....	703,694		1957.....	202,789	
							1956.....	161,454	
							1955.....	139,532	
							1954.....	120,717	
							1947.....	57,066	
							1958 <sup>1</sup>	1954	
							22,816	10,691	
					1,119		( <sup>3</sup> )		
					13,558		7,968		
					5,329		( <sup>3</sup> )		
New England.....	13,205	13,188	New England.....	4,581	4,757	Middle Atlantic.....	67,886	38,570	
Middle Atlantic.....	29,304	24,688	Massachusetts.....	1,705	( <sup>2</sup> )	New York.....	36,104	20,293	
New Jersey.....	18,201	( <sup>2</sup> )	Middle Atlantic.....	203,971	220,598	New Jersey.....	10,928	7,112	
East North Central.....	66,663	41,685	New York.....	20,622	21,064	Pennsylvania.....	20,854	11,164	
Ohio.....	22,245	17,130	New Jersey.....	95,801	100,186	East North Central.....	50,969	26,483	
Indiana.....	10,816	( <sup>2</sup> )	Pennsylvania.....	87,548	99,348	Ohio.....	22,002	13,209	
Illinois.....	25,299	( <sup>2</sup> )	East North Central.....	123,656	118,551	Indiana.....	7,499	2,733	
West North Central.....	18,715	11,947	Ohio.....	20,634	18,747	Illinois.....	8,558	7,986	
South Atlantic.....	26,564	27,005	Indiana.....	39,810	( <sup>2</sup> )	Michigan.....	12,201	( <sup>2</sup> )	
Maryland.....	11,382	( <sup>2</sup> )	Illinois.....	50,584	51,958	West North Central.....	11,707	5,138	
Georgia.....	6,347	( <sup>2</sup> )	Michigan.....	8,781	8,703	Minnesota.....	1,315	( <sup>3</sup> )	
East South Central.....	16,888	16,890	Wisconsin.....	3,847	( <sup>2</sup> )	Iowa.....	3,065	( <sup>3</sup> )	
West South Central.....	56,350	46,486	West North Central.....	47,562	32,390	Missouri.....	5,148	3,752	
Arkansas.....	6,500	6,338	Minnesota.....	3,524	( <sup>2</sup> )				
Louisiana.....	10,929	8,168	Iowa.....	961	1,518				
Oklahoma.....	8,151	8,897	Missouri.....	11,267	10,177				
Texas.....	30,770	23,082	Kansas.....	30,917	( <sup>2</sup> )				
Mountain.....	19,229	( <sup>2</sup> )	South Atlantic.....	15,848	7,922				
Montana.....	6,130	2,261	Maryland.....	3,344	( <sup>2</sup> )				
Wyoming.....	7,097	3,670	Florida.....	1,140	( <sup>3</sup> )				
Pacific.....	37,711	( <sup>2</sup> )	East South Central.....	1,529	( <sup>3</sup> )				
California.....	( <sup>2</sup> )	25,904							

See footnotes at end of table.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>		1958 <sup>1</sup>
<u>Paving mixtures and blocks</u> (29510)--Continued			<u>Asphalt and tar coatings, cements, and pitches</u> (29522):		<u>Asphalt and tar roofing and siding products</u> (29523):	
United States, total....			United States, total....	65,112	United States, total....	317,434
South Atlantic.....	29,883	14,909	New England.....	1,941	New England.....	14,866
Maryland.....	10,213	4,517	Middle Atlantic.....	14,637	Middle Atlantic.....	59,426
Virginia.....	2,737	( <sup>2</sup> )	New York.....	1,016	New York.....	3,920
West Virginia.....	5,381	1,793	New Jersey.....	5,895	New Jersey.....	36,902
North Carolina.....	1,618	( <sup>2</sup> )	Pennsylvania.....	7,726	Pennsylvania.....	18,604
South Carolina.....	1,206	1,656	East North Central.....	22,405	East North Central.....	86,078
Georgia.....	1,692	1,651	Ohio.....	11,182	Ohio.....	13,732
Florida.....	6,493	2,270	Illinois.....	9,924	Indiana.....	9,444
East South Central.....	16,069	3,865	West North Central.....	3,982	Illinois.....	60,642
Kentucky.....	2,826	( <sup>3</sup> )	South Atlantic.....	6,806	Michigan.....	2,260
Tennessee.....	2,755	( <sup>3</sup> )	Maryland.....	1,029	West North Central.....	23,226
Alabama.....	9,207	2,567	Texas.....	3,754	Minnesota.....	11,865
Mississippi.....	1,281	( <sup>3</sup> )	East South Central.....	1,897	Missouri.....	11,361
West South Central.....	12,940	5,764	West South Central.....	8,686	South Atlantic.....	30,466
Arkansas.....	1,601	1,083	Texas.....	7,487	Georgia.....	11,427
Louisiana.....	2,525	2,372	West.....	4,758	East South Central.....	15,832
Oklahoma.....	2,070	( <sup>3</sup> )	California.....	3,786	Alabama.....	10,634
Texas.....	6,744	1,824			West South Central.....	39,128
Mountain.....	6,021	1,285			Louisiana.....	14,492
Colorado.....	2,601	( <sup>3</sup> )			Texas.....	17,377
Arizona.....	1,566	( <sup>3</sup> )			West.....	48,412
Pacific.....	47,611	14,011			Oregon.....	6,368
Washington.....	2,557	1,561			California.....	36,881
Oregon.....	1,353	...				
California.....	43,701	12,450				

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 29111, Massachusetts, New York, Michigan, Wisconsin, Minnesota, Missouri, North Dakota, Nebraska, Delaware, Virginia, West Virginia, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Colorado, and Washington; 29112, Massachusetts, New York, Minnesota, Kansas, Delaware, Kentucky, Arkansas, Washington, and California; 29113, Massachusetts, New York, Michigan, Wisconsin, Minnesota, Missouri, North Dakota, Delaware, Maryland, Virginia, South Carolina, Kentucky, Tennessee, Mississippi, New Mexico, Washington, and Oregon; 29114, Massachusetts, New York, Michigan, Wisconsin, Missouri, Delaware, Tennessee, New Mexico, and Washington; 29115, New York, Indiana, Minnesota, Kansas, Delaware, Maryland, Virginia, West Virginia, Kentucky, Arkansas, Utah, Washington, and California; 29118, Rhode Island, New York, New Jersey, Indiana, Illinois, Delaware, Maryland, West Virginia, South Carolina, Georgia, Kentucky, New Mexico, Washington, and California; 29119, Massachusetts, Rhode Island, New York, Pennsylvania, Michigan, Wisconsin, Minnesota, Missouri, Kansas, Delaware, South Carolina, Florida, Kentucky, Alabama, Colorado, New Mexico, Utah, Washington, and Oregon; 29110, New York, Indiana, Wisconsin, Minnesota, Missouri, Kansas, Delaware, Virginia, West Virginia, Kentucky, Colorado, and California; 29926, Rhode Island, Connecticut, West Virginia, Kentucky, Wyoming, and Washington; 29927, Illinois, Maryland, Mississippi, and California; 29510, Maine and Kansas; 29522, Massachusetts, Michigan, Missouri, and North Carolina; 29523, Massachusetts, Connecticut, Delaware, Maryland, West Virginia, North Carolina, Florida, Tennessee, Mississippi, Arkansas, Oklahoma, Colorado, and Washington.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



PETROLEUM REFINING AND RELATED INDUSTRIES

29A-19

Table 6C--Selected Petroleum Products, by Divisions and States: 1958

Division and State	Receipts	Shipments including interplant transfers		Division and State	Receipts	Shipments including interplant transfers	
		Quantity	Value (excluding tax)			Quantity	Value (excluding tax)
<u>Aviation gasoline (except jet-propulsion fuel) (2911111):</u>	(1,000 bbls.)	(1,000 bbls.)	(\$1,000)	<u>Kerosene (including range oil) (2911211):</u>	(1,000 bbls.)	(1,000 bbls.)	(\$1,000)
United States, total.....	xxx	113,724	733,058	United States, total.....	2,156	102,549	411,720
Middle Atlantic.....	xxx	3,399	23,414	Northeast.....	451	11,801	48,455
North Central.....	xxx	21,867	126,834	New Jersey.....	(D)	3,786	15,184
Illinois.....	xxx	8,003	51,440	Pennsylvania.....	(D)	5,929	24,400
South.....	xxx	67,287	435,930	East North Central.....	484	19,592	91,409
Louisiana.....	xxx	19,302	124,364	Ohio.....	...	4,448	20,827
Texas.....	xxx	40,810	269,476	Indiana.....	458	4,347	18,563
West.....	xxx	21,171	146,880	Illinois.....	...	8,034	35,180
Automotive gasoline (2911131):				Michigan.....	(D)	2,763	16,839
United States, total.....	xxx	1,299,745	6,628,060	West North Central.....	(D)	1,249	5,157
Northeast.....	xxx	173,495	887,416	South.....	1,026	66,203	248,769
New Jersey.....	xxx	58,604	299,320	Louisiana.....	(D)	17,796	64,517
Pennsylvania.....	xxx	95,689	487,460	Oklahoma.....	23	1,775	6,633
East North Central.....	xxx	255,114	1,364,700	Texas.....	776	40,957	154,292
Ohio.....	xxx	70,580	381,999	Mountain.....	6	647	2,865
Indiana.....	xxx	68,653	367,715	Wyoming.....	(D)	415	1,761
Illinois.....	xxx	97,326	510,343	Pacific.....	175	3,057	15,065
West North Central.....	xxx	74,020	376,855	<u>Distillate fuel oil, Grade No. 1</u>			
Kansas.....	xxx	49,401	248,551	<u>(including P.S.100) (2911311):</u>			
South.....	xxx	579,222	2,797,759	United States, total.....	xxx	57,622	238,175
Louisiana.....	xxx	119,728	553,033	Middle Atlantic.....	xxx	(D)	(D)
Oklahoma.....	xxx	67,008	334,007	East North Central.....	xxx	17,702	76,554
Texas.....	xxx	337,187	1,622,919	Ohio.....	xxx	2,257	9,232
Mountain.....	xxx	50,608	275,719	Indiana.....	xxx	8,580	37,567
Montana.....	xxx	11,961	65,021	West North Central.....	xxx	13,587	53,004
Wyoming.....	xxx	16,033	85,910	Kansas.....	xxx	9,499	36,660
Utah.....	xxx	11,079	61,593	South.....	xxx	13,347	51,793
Pacific.....	xxx	167,286	925,611	Oklahoma.....	xxx	10,056	38,798
<u>Jet-propulsion fuel (2911151):</u>				Texas.....	xxx	3,145	12,442
United States, total.....	1,208	78,999	306,330	Mountain.....	xxx	(D)	(D)
Northeast.....	(D)	883	3,914	Wyoming.....	xxx	1,681	6,753
North Central.....	...	9,234	37,914	Colorado.....	xxx	381	1,569
Indiana.....	...	980	3,888	New Mexico.....	xxx	300	703
South.....	600	43,270	163,860	Pacific.....	xxx	7,262	32,575
Louisiana.....	...	7,639	27,243	<u>Distillate fuel oil, Grades No. 2, 3,</u>			
Oklahoma.....	...	8,112	32,485	<u>and 4 (including P.S. 200)</u>			
Texas.....	(D)	23,507	89,877	<u>(2911331):</u>			
Mountain.....	(D)	6,163	25,509	United States, total.....	xxx	453,380	1,692,118
Utah.....	...	1,641	7,082	Northeast.....	xxx	102,754	397,537
Pacific.....	(D)	19,449	75,133	Pennsylvania.....	xxx	56,387	217,645
<u>Other finished gasolines (including finished base stocks and blending agents) (2911198):</u>				East North Central.....	xxx	74,798	309,039
United States, total.....	xxx	33,040	157,573	Ohio.....	xxx	13,729	59,133
Middle Atlantic.....	xxx	1,681	7,773	Indiana.....	xxx	25,732	102,454
New Jersey.....	xxx	1,060	4,626	Illinois.....	xxx	26,643	105,329
East North Central.....	xxx	2,100	10,544	West North Central.....	xxx	23,704	86,552
West North Central.....	xxx	687	2,970	Kansas.....	xxx	13,897	49,754
Kansas.....	xxx	609	2,617	South Atlantic.....	xxx	13,634	51,962
South.....	xxx	23,872	111,156	East South Central.....	xxx	2,296	8,996
Louisiana.....	xxx	1,326	4,931	Kentucky.....	xxx	1,924	7,731
Texas.....	xxx	21,360	100,333	West South Central.....	xxx	190,200	659,788
West.....	xxx	4,700	25,130	Louisiana.....	xxx	35,134	116,635
				Texas.....	xxx	135,000	472,831

See footnotes at end of table.



Table 6C.--Selected Petroleum Products, by Divisions and States: 1958--Continued

Division and State	Receipts	Shipments including interplant transfers		Division and State	Receipts	Shipments including interplant transfers	
		Quantity	Value (excluding tax)			Quantity	Value (excluding tax)
<u>Distillate fuel oil, Grades No. 2, 3, and 4 (including P.S. 200) (2911331)--Continued</u>	(1,000 bbls.)	(1,000 bbls.)	(\$1,000)	<u>Residual fuel oil, Grade No. 6 (including Bunker C and P.S. 400) (2911431)--Continued</u>	(1,000 bbls.)	(1,000 bbls.)	(\$1,000)
Mountain.....	xxx	5,841	22,009	East North Central.....	xxx	37,038	104,615
Montana.....	xxx	2,070	7,902	Ohio.....	xxx	8,038	23,250
Wyoming.....	xxx	2,025	7,462	Indiana.....	xxx	13,102	34,577
Utah.....	xxx	837	3,380	Illinois.....	xxx	8,834	22,233
Pacific.....	xxx	40,153	156,235	West North Central.....	xxx	5,728	10,777
California.....	xxx	36,031	140,235	Minnesota.....	xxx	2,104	6,045
<u>Distillate fuel oil, Diesel-type fuel oil (light) (2911351):</u>				Kansas.....	xxx	3,031	4,063
United States, total.....	xxx	132,985	497,449	South.....	xxx	101,476	213,339
Northeast.....	xxx	7,895	32,093	Louisiana.....	xxx	15,981	37,843
Pennsylvania.....	xxx	2,077	8,622	Oklahoma.....	xxx	3,176	4,192
East North Central.....	xxx	15,552	62,758	Texas.....	xxx	73,049	152,488
Illinois.....	xxx	5,554	22,101	Mountain.....	xxx	5,864	9,382
West North Central.....	xxx	6,055	22,171	Montana.....	xxx	1,193	1,540
South Atlantic.....	xxx	3,257	12,512	Wyoming.....	xxx	2,629	4,181
East South Central.....	xxx	6,819	27,172	Colorado.....	xxx	1,491	2,644
West South Central.....	xxx	70,710	254,905	Pacific.....	xxx	70,450	149,166
Oklahoma.....	xxx	2,950	10,542	Washington.....	xxx	2,633	6,032
Texas.....	xxx	49,329	177,712	California.....	xxx	67,817	143,134
Mountain.....	xxx	13,002	49,531	<u>Other residual fuel oils (including heavy gas-enrichment oil) (2911498):</u>			
Montana.....	xxx	2,578	9,802	United States, total.....	xxx	30,568	81,361
Wyoming.....	xxx	3,645	14,000	Middle Atlantic.....	xxx	7,172	19,832
New Mexico.....	xxx	1,369	4,765	New Jersey.....	xxx	3,275	9,261
Pacific.....	xxx	9,695	36,307	South.....	xxx	9,783	31,028
<u>Other distillate fuel oils (including light gas-enrichment oil) (2911398):</u>				Texas.....	xxx	5,547	20,256
United States, total.....	xxx	17,329	63,144	West.....	xxx	10,782	21,890
Northeast.....	xxx	879	3,266	California.....	xxx	8,578	17,996
New Jersey.....	xxx	344	1,238	<u>Unfinished oils (including cracking stock and unfinished gasoline stocks) (2911811):</u>			
East North Central.....	xxx	3,564	14,575	United States, total.....	96,508	71,396	276,913
West North Central.....	xxx	1,568	5,811	North Central.....	6,489	3,367	14,717
South.....	xxx	7,959	27,107	South.....	33,616	30,887	116,024
Oklahoma.....	xxx	153	665	Texas.....	21,535	24,373	93,085
Texas.....	xxx	2,298	7,468	<u>Unfinished oils and lubricating-oil petroleum base stocks (for blending compounding and grease manufacture) (2911851):</u>			
Pacific.....	xxx	2,983	11,404	United States, total.....	25,000	21,971	163,972
<u>Residual fuel oil, Grade No. 5 (including Navy special and P.S. 300) (2911411):</u>				North Central.....	12,695	1,655	11,619
United States, total.....	xxx	46,940	118,247	Illinois.....	1,115	184	2,865
Northeast.....	xxx	4,555	13,217	South.....	3,116	14,310	99,988
East North Central.....	xxx	9,130	27,519	Louisiana.....	1,891	(D)	(D)
Indiana.....	xxx	4,544	14,178	Texas.....	792	5,287	42,932
Illinois.....	xxx	3,391	9,469	<u>Asphalt of 200 penetration and over (2911911):</u>			
West North Central.....	xxx	1,898	4,765	United States, total.....	xxx	37,586	119,487
Minnesota.....	xxx	800	2,788	Northeast.....	xxx	1,956	6,840
South Atlantic.....	xxx	288	926	New Jersey.....	xxx	1,007	3,592
East South Central.....	xxx	920	2,710	North Central.....	xxx	15,733	48,522
West South Central.....	xxx	4,739	11,397	Ohio.....	xxx	1,908	7,627
Mountain.....	xxx	2,781	5,340	Indiana.....	xxx	988	3,782
Montana.....	xxx	771	1,203	Illinois.....	xxx	4,823	13,859
Pacific.....	xxx	22,629	52,373	South.....	xxx	14,054	45,333
<u>Residual fuel oil, Grade No. 6 (including Bunker C and P.S. 400) (2911431):</u>				Arkansas.....	xxx	874	3,125
United States, total.....	xxx	264,254	592,192	Louisiana.....	xxx	892	2,751
Middle Atlantic.....	xxx	43,077	103,350	Oklahoma.....	xxx	1,525	4,334
Pennsylvania.....	xxx	27,452	65,881	Texas.....	xxx	4,289	12,740

See footnotes at end of table.



Table 6C.--Selected Petroleum Products, by Divisions and States: 1958--Continued

Division and State	Receipts	Shipments including interplant transfers		Division and State	Receipts	Shipments including interplant transfers	
		Quantity	Value (excluding tax)			Quantity	Value (excluding tax)
<u>Asphalt of 200 penetration and over (2911911)--Continued</u>	(1,000 bbls.)	(1,000 bbls.)	(\$1,000)	<u>Road oil (2911031)--Continued</u>	(1,000 bbls.)	(1,000 bbls.)	(\$1,000)
West.....	xxx	5,843	18,792	West South Central.....	xxx	1,398	3,990
Mountain.....	xxx	2,878	8,443	Oklahoma.....	xxx	688	2,347
Pacific.....	xxx	2,965	10,349	Mountain.....	xxx	2,429	5,942
<u>Asphalt of less than 200 penetration (2911951):</u>	(1,000 tons)	(1,000 tons)		Pacific.....	xxx	2,563	8,441
United States, total.....	xxx	8,610	160,847	<u>Still gas (2911041):</u>	(Mil. cu. ft.)	(Mil. cu. ft.)	
Northeast.....	xxx	1,987	35,348	United States, total.....	xxx	57,994	16,101
New Jersey.....	xxx	823	14,574	North Central.....	xxx	17,032	6,617
North Central.....	xxx	1,687	34,454	South.....	xxx	37,870	8,607
Ohio.....	xxx	541	12,231	West.....	xxx	(D)	(D)
Indiana.....	xxx	379	7,034	<u>Naphtha solvents (2911051):</u>	(1,000 bbls.)	(1,000 bbls.)	
Illinois.....	xxx	548	11,440	United States, total.....	xxx	20,397	135,651
South.....	xxx	2,856	52,982	Middle Atlantic.....	xxx	2,278	13,731
Arkansas.....	xxx	218	3,375	Pennsylvania.....	xxx	1,083	7,167
Louisiana.....	xxx	588	8,166	East North Central.....	xxx	3,350	21,722
Oklahoma.....	xxx	201	3,817	Ohio.....	xxx	880	4,999
Texas.....	xxx	835	18,030	Michigan.....	xxx	603	3,598
Mountain.....	xxx	587	10,701	West North Central.....	xxx	706	3,779
Pacific.....	xxx	1,493	27,362	South.....	xxx	10,285	69,777
California.....	xxx	1,320	23,472	Pacific.....	xxx	3,638	25,817
<u>Petrolatum (2911011):</u>	(1,000 lbs.)	(1,000 lbs.)		<u>Microcrystalline wax (2911061):</u>	(1,000 lbs.)	(1,000 lbs.)	
United States, total.....	182,974	540,375	22,406	United States, total.....	xxx	290,087	27,500
Middle Atlantic.....	108,211	275,772	13,824	Middle Atlantic.....	xxx	120,254	9,283
North Central.....	...	37,051	1,464	North Central.....	xxx	71,453	7,627
West South Central.....	74,413	214,172	6,450	West South Central.....	xxx	96,824	10,285
Texas.....	(D)	99,466	2,556	Texas.....	xxx	34,045	2,860
<u>Petroleum coke (2911021):</u>	(1,000 tons)	(1,000 tons)		<u>Refined and semi-refined crystalline wax (2911071):</u>			
United States, total.....	xxx	3,514	39,735	United States, total.....	xxx	1,212,880	75,723
East North Central.....	xxx	1,199	14,702	Middle Atlantic.....	xxx	518,768	29,162
Illinois.....	xxx	521	6,178	North Central.....	xxx	64,125	6,860
West North Central.....	xxx	302	4,393	South.....	xxx	426,042	27,131
South Atlantic.....	xxx	(D)	(D)	Texas.....	xxx	245,626	14,376
West South Central.....	xxx	928	11,236	West.....	xxx	203,945	12,570
West.....	xxx	803	7,503	<u>Other finished petroleum products (2911098):</u>			
<u>Road oil (2911031):</u>	(1,000 bbls.)	(1,000 bbls.)		United States, total.....	xxx	xxx	54,265
United States, total.....	xxx	10,371	29,166	Middle Atlantic.....	xxx	xxx	10,820
Northeast.....	xxx	64	313	North Central.....	xxx	xxx	2,647
East North Central.....	xxx	2,218	6,245	Michigan.....	xxx	xxx	559
Illinois.....	xxx	1,810	4,662	West South Central.....	xxx	xxx	34,633
West North Central.....	xxx	1,699	4,235	Texas.....	xxx	xxx	22,347
				Pacific.....	xxx	xxx	4,545
				California.....	xxx	xxx	4,545

D Withheld to avoid disclosing figures for individual companies.  
NA Not available.



## MANUFACTURES-INDUSTRY STATISTICS

Table 7A.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 2911—PETROLEUM REFINING					
	Materials, containers, and supplies, total.....		xxx	11,584,157	xxx	9,707,349
	Crude petroleum (including topped and enriched petroleum).....	1,000 bbls....	2,849,525	9,180,035	12,499,295	17,638,890
131212	Domestic.....	do.....	2,494,700	8,068,597	2,288,773	6,995,841
131222	Foreign.....	do.....	354,825	1,111,438	210,522	643,049
131511	Cycle condensate <sup>2</sup> .....	do.....	18,216	55,655	10,010	32,098
131411	Natural gasoline <sup>3</sup> .....	do.....	102,869	337,160	71,573	255,295
131421	Liquefied petroleum gases <sup>4</sup> .....	do.....	33,021	92,466	26,567	72,551
293221	Benzol (Benzene) (100% C <sub>6</sub> H <sub>6</sub> ).....	do.....	5683	9,966	556	7,926
280061	Antioxidents and inhibitors.....	do.....	910	82,785	*452	48,054
280071	Additives used in making lubricants <sup>6</sup> .....	do.....	1,258	72,272	1,986	96,062
941291	Crankcase drainings and other used oils consumed for refining or reclaiming.....	do.....	10,942	5,263	2,283	3,854
281221	Caustic soda (sodium hydroxide, 100% NaOH).....	Short tons....	210,199	13,564	258,745	15,015
147711	Sulfur, crude.....	Long tons....	20,459	728	42,316	1,369
	Sulfuric acid (100% H <sub>2</sub> SO <sub>4</sub> ):					
281111	Gross, except spent.....	Short tons....	71,421,605	30,014	71,087,884	23,677
281131	Spent acid fortified in contact units.....	do.....	834,775	574	xxx	(9)
281923	Hydrofluoric acid (100% HF).....	do.....	7,180	3,073	8,626	1,880
	Containers:					
340001	Metal.....		xxx	100,913	xxx	1,510,678
260091	Paper and paperboard.....		xxx	16,255	xxx	
970099	All other materials, components, parts, containers and supplies consumed, including cost of materials received from other refining or lube plants which are processed in this plant.....		xxx	1,534,776	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	48,658	xxx	
	INDUSTRY 2951—PAVING MIXTURES AND BLOCKS					
	Materials, containers, and supplies, total.....		xxx	130,890	xxx	70,823
	Asphalt:					
291111	Less than 200 penetration.....	Short tons....	2,077,005	44,899	926,468	20,471
291115	200 and over penetration.....	1,000 bbls....	1,568	4,097	1,793	4,826
970099	All other materials, containers, supplies, components, etc.....		xxx	52,493	xxx	45,526
973000	Materials, containers, supplies, nsk.....		xxx	1029,401	xxx	
	INDUSTRY 2952—ASPHALT FELTS AND COATINGS					
	Materials, containers, and supplies, total.....		xxx	261,592	xxx	244,148
	Asphalt:					
291111	Less than 200 penetration.....	Short tons....	2,580,721	52,784	2,392,287	48,018
291115	200 and over penetration.....	1,000 bbls....	7,601	26,003	6,703	21,196
261311	Building paper.....	Short tons....	680,336	44,589	946,497	174,934
261221	Coarse paper (kraft).....	do.....	11,654	1,261	xxx	
970099	All other materials, containers, supplies, components, etc.....		xxx	105,000	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	31,955	xxx	
	INDUSTRY 2992—LUBRICATING OILS AND GREASES					
	Materials, containers, supplies, etc., total.....		xxx	159,271	xxx	137,186
280061	Antioxidents and inhibitors.....	1,000 bbls....	13	1,320	*10	943
280071	Additives used in making lubricants <sup>6</sup> .....	do.....	653	18,712	645	17,263
281111	Sulfuric acid, except spent acid.....	Short tons....	xxx	(11)	12,393	323
281221	Caustic soda (sodium hydroxide, 100% Na OH).....	do.....	3,535	285	2,090	149
941291	Crankcase drainings and other used oils consumed for refining or reclaiming.....	1,000 bbls....	163	354	xxx	118,508
	Containers:					
340001	Metal.....		xxx	18,638	xxx	
260091	Paper and paperboard.....		xxx	1,449	xxx	
970099	All other materials, containers, supplies, components, etc.....		xxx	101,220	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	1017,293	xxx	
	INDUSTRY 2999—PRODUCTS OF PETROLEUM AND COKE, NEC					
	Materials, containers, and supplies, total.....		xxx	40,293	xxx	33,411
	Asphalt:					
291111	Less than 200 penetration.....	Short tons....	93,220	2,840	156,201	3,936
291115	200 and over penetration.....	do.....				
	Coal used as raw material:					
111111	Anthracite.....	do.....	197,005	1,873	233,330	1,388
121111	Bituminous, including lignite, semi-anthracite, anthracite other than Pennsylvania.....	do.....	883,250	6,054	1,021,788	6,481
970099	All other materials, containers, and supplies.....		xxx	26,496	xxx	21,606
973000	Materials, containers, and supplies, nsk.....		xxx	103,030	xxx	xxx

\*Revised.

NA Not available.

<sup>1</sup>Excludes topped and enriched petroleum which were included with receipts of unfinished oils in 1954 (table 6A).<sup>2</sup>Includes material mixed with crude petroleum.<sup>3</sup>Includes drip gasoline and natural gasoline mixed with crude.<sup>4</sup>Represents liquefied petroleum gases from natural gasoline plants only.<sup>5</sup>In addition, 42,000 barrels were produced and consumed in 1954. However, the comparable figure for 1958 is withheld to avoid disclosing figures for individual companies.<sup>6</sup>Includes such materials as soaps, detergents, vegetable and animal oils, and chemicals.<sup>7</sup>In addition 344,144 short tons were produced and consumed in 1958, and 345,609 short tons in 1954.<sup>8</sup>In addition 25,653 short tons were produced and consumed in 1958.<sup>9</sup>Materials code 281131 included with code 970099 in 1954 for industry 2911.<sup>10</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."<sup>11</sup>Materials code 281111 included in code 970099 in 1958 for Industry 2992.



Table 7B.—Selected Materials Consumed by Industries 1911, Petroleum Refining and 1992,  
 Lubricants, NEC, by States: 1958 and 1954

Material, region and State	1958		1954		Material, region and State	1958		1954	
	Quantity (1,000 barrels)	Delivered cost (\$1,000)	Quantity (1,000 barrels)	Delivered cost (\$1,000)		Quantity (1,000 barrels)	Delivered cost (\$1,000)	Quantity (1,000 barrels)	Delivered cost (\$1,000)
Crude petroleum (foreign and domestic) <sup>1</sup> (codes 131212 and 131222).....	2,846,525	9,180,035	2,499,295	7,638,890	Natural gasoline, mixed and crude <sup>3</sup> (code 131411)—Con.				
Northeast.....	380,376	1,327,256	382,451	1,230,673	West North Central.....	2,548	8,607	2,444	7,222
New Jersey.....	129,271	452,672	141,386	458,615	East South Central.....	463	1,310	888	2,979
Pennsylvania.....	208,761	720,799	193,000	616,144	West South Central.....	69,477	220,357	(D)	(D)
Other States.....	42,344	153,785	48,065	155,914	Oklahoma.....	7,134	21,956	7,043	19,450
East North Central.....	555,024	1,707,806	455,128	1,472,685	Texas.....	53,906	169,144	22,370	74,360
Ohio.....	129,170	452,246	122,422	412,641	Other States.....	8,437	29,257	(NA)	(NA)
Indiana.....	146,871	488,415	137,135	439,818	West.....	20,597	74,329	25,374	108,497
Illinois.....	230,880	598,647	152,663	481,002	Wyoming.....	1,234	3,298	753	2,361
Other States.....	48,103	168,498	42,908	139,224	New Mexico.....	731	2,643	(NA)	(NA)
West North Central.....	166,012	529,119	119,023	361,660	Utah.....	392	1,122	(NA)	(NA)
Minnesota.....	20,392	57,740	(NA)	(NA)	California.....	17,846	65,734	23,096	97,040
Kansas.....	105,169	339,696	(NA)	(NA)	Other States.....	394	1,532	1,525	9,096
Other States.....	40,451	131,683	(NA)	(NA)	Other Regions.....	1,991	7,574	34,759	109,354
South Atlantic.....	58,888	173,523	29,304	86,191	Antioxidants and inhibitors (code 280061).....	774	84,105	463	48,997
Maryland.....	5,398	13,137	(NA)	(NA)	Northeast.....	92	9,221	63	7,048
Other States.....	53,490	160,386	(NA)	(NA)	North Central.....	281	28,181	95	9,160
East South Central.....	46,553	144,741	33,275	102,545	Illinois.....	126	12,986	(NA)	(NA)
Alabama.....	3,464	8,894	(NA)	(NA)	Other States.....	155	15,195	(NA)	(NA)
Other States.....	43,089	135,847	(NA)	(NA)	South.....	292	33,596	251	27,457
West South Central.....	1,138,164	3,753,251	1,021,621	3,123,104	Oklahoma.....	17	1,339	14	1,498
Arkansas.....	24,461	72,635	15,046	41,996	Texas.....	222	26,470	226	24,878
Louisiana.....	245,981	826,222	206,582	642,321	Other States.....	53	5,787	9	796
Oklahoma.....	127,433	406,010	106,340	318,088	West.....	109	13,107	54	5,332
Texas.....	740,289	2,448,384	693,653	2,120,699	Wyoming.....	13	1,456	6	571
West.....	501,508	1,544,339	458,493	1,262,032	California.....	81	9,284	44	4,349
Montana.....	26,838	76,450	20,050	49,807	Other States.....	33	4,112	4	412
Wyoming.....	30,727	92,147	31,657	82,192	Liquefied petroleum gases <sup>4</sup> (code 131421).....	33,021	92,466	26,567	72,551
Colorado.....	10,890	36,103	8,855	26,764	Northeast.....	360	1,175	511	2,604
New Mexico.....	9,475	28,039	6,656	20,214	East North Central.....	4,951	14,145	1,383	4,056
California.....	368,264	1,129,398	362,666	998,858	Illinois.....	2,697	8,784	(NA)	(NA)
Other States.....	55,314	182,202	28,609	84,197	Other States.....	2,254	5,361	(NA)	(NA)
Domestic crude petroleum <sup>1</sup> (code 131212).....	2,491,700	8,068,597	2,288,773	6,995,841	West North Central.....	955	2,687	(NA)	(NA)
Northeast.....	179,694	677,015	197,714	660,798	South.....	24,312	67,121	(NA)	(NA)
New Jersey.....	(D)	(D)	72,617	246,161	Louisiana.....	8,128	22,079	4,708	13,394
Pennsylvania.....	100,280	373,314	92,674	307,223	Oklahoma.....	2,940	7,464	(NA)	(NA)
Other States.....	79,414	303,701	32,423	107,414	Texas.....	12,813	35,981	15,045	36,056
East North Central.....	550,235	1,693,182	454,128	1,469,477	Other States.....	431	1,597	(NA)	(NA)
Ohio.....	(D)	(D)	122,422	412,641	West.....	2,443	7,338	3,986	14,885
Indiana.....	146,871	488,415	137,135	439,818	California.....	2,001	6,049	3,462	13,528
Illinois.....	230,880	598,647	152,663	481,002	Other States.....	442	1,289	524	1,357
Other States.....	172,484	606,120	41,908	136,016	Additives used in making lubricants <sup>5</sup> (code 280071)....	1,911	90,984	2,631	113,325
West North Central.....	134,829	434,662	118,444	359,643	Northeast.....	417	25,506	724	22,529
South.....	1,192,937	3,939,139	1,079,228	3,301,237	New Jersey.....	203	14,710	134	8,732
Arkansas.....	24,461	72,635	15,046	41,996	Pennsylvania.....	121	7,469	195	11,487
Oklahoma.....	127,433	406,010	106,340	318,088	Other States.....	93	3,227	395	2,310
Texas.....	725,346	2,409,797	(D)	(D)	East North Central.....	505	16,495	581	18,687
Other States.....	307,970	1,050,697	957,842	2,941,153	Ohio.....	85	2,476	78	4,549
West.....	434,005	1,324,599	439,259	1,204,686	Indiana.....	179	5,793	(NA)	(NA)
Montana.....	26,838	76,450	20,050	49,807	Illinois.....	205	6,739	232	7,286
Wyoming.....	30,727	92,147	31,657	82,192	Other States.....	36	1,487	271	6,852
Colorado.....	10,890	36,103	8,855	26,764	West North Central.....	62	3,198	80	5,754
New Mexico.....	9,475	28,039	6,656	20,214	South.....	629	36,587	(NA)	(NA)
California.....	320,131	973,001	343,432	941,512	Louisiana.....	67	3,698	(NA)	(NA)
Other States.....	35,944	118,859	28,609	84,197	Oklahoma.....	89	5,372	282	7,787
Cycle condensate <sup>2</sup> (code 131511).....	18,216	55,655	10,010	32,098	Texas.....	451	25,906	258	24,644
West South Central.....	15,959	47,559	6,283	20,349	Other States.....	22	1,611	(NA)	(NA)
Texas.....	14,053	41,064			West.....	298	9,198	373	15,313
Other Regions.....	2,257	8,096	3,727	11,749					
Natural gasoline, mixed and crude <sup>3</sup> (code 131411).....	102,869	337,160	71,573	255,295					
East North Central.....	7,793	24,983	8,108	27,243					
Indiana.....	3,617	11,210	(NA)	(NA)					
Other States.....	4,176	13,773	(NA)	(NA)					

D Withheld to avoid disclosing figures for individual companies; data included in either States of the region. NA Not available. <sup>1</sup>1954 data exclude topped crude and other unfinished oils. These items included under "Receipts" of petroleum products table 6C. <sup>2</sup>Includes material mixed with crude petroleum. <sup>3</sup>Includes drip gasoline and natural gasoline mixed with crude petroleum. <sup>4</sup>Represents liquefied petroleum gases from natural gasoline plants. <sup>5</sup>Includes such materials as soaps, detergents, vegetable and animal oils, and chemicals.



## MANUFACTURES-INDUSTRY STATISTICS

Table 7C.—Fuels Produced and Consumed, by Industry 2911, Petroleum Refining,  
by Divisions and States: 1958 and 1954

Code	Division and State	1958						1954					
		Residual fuels		Still gas		Other (acid, sludge, etc.)		Residual fuels		Still gas		Other (acid, sludge, etc.)	
		Quantity (1,000 barrels)	Sales value F.O.B. plant (\$1,000)	Quantity (1,000 barrels)	Sales value F.O.B. plant (\$1,000)	Quantity (1,000 barrels)	Sales value F.O.B. plant (\$1,000)	Quantity (1,000 barrels)	Sales value F.O.B. plant (\$1,000)	Quantity (1,000 barrels)	Sales value F.O.B. plant (\$1,000)	Quantity (1,000 barrels)	Sales value F.O.B. plant (\$1,000)
2911	Petroleum re- fining, total.	48,688	104,702	671,699	205,780	17,415	25,021	48,521	86,622	480,014	143,360	11,582	13,958
	Northeast.....	16,512	38,493	88,613	33,509	(D)	(D)	15,796	32,187	63,279	24,894	1,974	3,597
	New Jersey.....	8,554	19,526	37,369	9,403	(D)	(D)	8,114	15,289	15,647	7,687	(D)	(D)
	Pennsylvania.....	6,598	15,639	41,425	19,797	(D)	(D)	6,670	14,560	36,346	14,482	658	1,113
	Other States.....	1,360	3,328	9,819	4,309	(D)	(D)	1,012	2,338	11,286	2,725	1,316	2,484
	East North Central.	16,100	36,732	143,979	56,384	3,629	7,935	12,237	27,734	100,309	47,155	2,899	5,091
	Ohio.....	2,394	5,862	(D)	(D)	1,639	3,457	2,733	7,139	30,587	15,439	(D)	(D)
	Indiana.....	5,593	15,534	38,856	15,947	(D)	(D)	4,677	11,612	22,856	14,291	(D)	(D)
	Illinois.....	5,141	7,508	67,623	23,485	(D)	(D)	3,424	5,634	41,274	15,841	(D)	(D)
	Other States.....	2,972	7,828	37,500	16,592	(D)	(D)	1,403	3,349	5,592	1,584	(D)	(D)
	West North Central.	2,695	4,669	33,726	8,374	(D)	(D)	2,926	3,628	18,031	4,964	1,064	1,121
	Kansas.....	1,201	1,381	16,401	3,613	(D)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	South.....	1,803	2,994	266,173	60,087	7,851	9,006	6,406	6,297	204,156	40,810	4,500	3,073
	Kentucky.....	233	534	(D)	(D)	(D)	(D)	270	624	(D)	(D)	(D)	(D)
	Louisiana.....	(D)	(D)	45,949	8,533	(D)	(D)	(NA)	42	21,072	3,076	(D)	(D)
	Oklahoma.....	340	296	34,463	5,288	(D)	(D)	613	546	16,390	3,263	...	...
	Texas.....	640	777	156,789	35,475	4,850	5,470	1,812	2,711	154,062	30,332	3,124	1,875
	West.....	11,578	21,814	144,479	48,141	1,163	1,749	11,156	16,776	94,239	25,537	1,145	1,076
	Montana.....	745	1,078	4,226	1,535	(D)	(D)	537	714	3,196	711	171	186
	Wyoming.....	1,207	1,512	8,033	1,899	(D)	(D)	1,531	1,906	6,513	1,545	(D)	(D)
	Colorado.....	519	790	(D)	(D)	(D)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	California.....	7,938	16,080	116,097	39,825	(D)	(D)	7,743	11,864	78,448	21,848	338	294
	Other States.....	1,169	2,354	16,123	4,882	1,163	1,749	1,345	2,292	6,082	1,433	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
29111	Gasoline and jet fuel (primary product class of estab.).....	236	132,795	865,753	97,453	188,752	595,265	1,928,994	11,607,980	13,687,703	596,484
	Establishments with:										
	75-89% specialization.....	37	7,856	49,016	6,019	12,078	35,575	148,544	768,660	928,802	24,531
29115	Liquefied petroleum gases (made in refineries) (primary product class of estab.).....	13	3,854	23,834	2,586	5,017	15,206	92,776	103,294	195,484	30,113
	Establishments with:										
	90% or more specialization....	10	3,429	21,310	2,301	4,454	13,617	86,144	95,110	180,657	29,913
29116	Lubricating oils (made in refineries) <sup>1</sup> (primary product class of estab.).....	53	3,272	18,654	2,220	4,533	12,097	40,009	190,170	232,975	9,352
	Establishments with:										
	90% or more specialization....	32	330	1,679	225	450	1,001	3,240	5,819	8,962	( <sup>2</sup> )
	75-89% specialization.....	5	106	673	71	150	397	1,294	1,767	3,051	( <sup>2</sup> )
29119	Asphalt (primary product class of estab.).....	31	1,964	12,264	1,477	2,859	8,642	15,012	151,318	177,803	7,293
	Establishments with:										
	90% or more specialization....	6	138	866	96	204	586	1,309	7,033	8,408	( <sup>2</sup> )
2952	ASPHALT FELTS AND COATINGS (entire industry).....	209	15,520	77,444	11,541	24,009	54,007	159,449	304,421	463,040	6,613
	Establishments with:										
	90% or more specialization.....	173	10,821	54,458	8,286	17,502	38,859	108,136	234,509	341,848	4,538
	75-89% specialization.....	10	1,276	7,169	910	1,890	4,530	10,659	24,689	35,296	( <sup>2</sup> )
29521	Asphalt and tar saturated felts and boards for nonbuilding use (primary product class of estab.)..	8	224	1,160	163	332	708	1,922	2,855	4,723	( <sup>2</sup> )
	Establishments with:										
	90% or more specialization....	4	105	543	79	158	360	475	1,391	1,855	( <sup>2</sup> )
29522	Asphalt and tar coatings, cements, and pitches (primary product class of estab.).....	69	1,869	8,184	856	1,694	3,450	21,109	32,857	53,886	549
	Establishments with:										
	90% or more specialization....	35	607	2,957	319	666	1,348	6,642	13,216	19,855	( <sup>2</sup> )
29523	Asphalt and tar roofing and siding products (primary product class of estab.).....	109	13,259	67,392	10,401	21,772	49,385	134,705	266,038	400,120	5,836
	Establishments with:										
	90% or more specialization....	84	7,476	37,084	5,816	12,359	26,738	77,761	165,577	242,653	3,534
2992	LUBRICATING OILS AND GREASE <sup>3</sup> (entire industry).....	306	7,568	42,349	4,484	8,588	20,441	103,084	177,521	281,377	7,230
	Establishments with:										
	90% or more specialization.....	258	4,866	26,890	2,937	5,681	13,267	60,474	114,664	175,177	5,172
	75-89% specialization.....	18	366	1,967	221	420	1,058	6,013	10,802	16,804	( <sup>2</sup> )
29926	Lubricating oils <sup>3</sup> (primary product class of estab.).....	190	5,446	30,896	3,222	6,216	14,909	78,401	137,119	216,099	5,126
	Establishments with:										
	90% or more specialization....	120	1,781	10,060	1,076	2,112	4,934	25,768	45,064	71,296	1,105
	75-89% specialization.....	31	936	4,919	540	1,044	2,466	13,631	31,298	44,333	1,982
29927	Lubricating greases <sup>3</sup> (primary product class of estab.).....	50	1,478	8,679	854	1,719	4,157	17,555	27,475	45,236	915
	Establishments with:										
	90% or more specialization....	27	528	3,281	283	585	1,363	6,601	6,977	13,621	( <sup>2</sup> )
	75-89% specialization.....	5	199	1,242	94	196	476	2,094	3,692	5,811	( <sup>2</sup> )

<sup>1</sup>Represents statistics for plants classified in Industry 2911, Petroleum Refining. (see text)

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>Represents statistics for blenders and compounders. (see text).



Table 9 -Distribution of Shipments from Petroleum Refineries of Specified Petroleum Products by  
Class of Customer for the United States: 1958

(Quantities in thousands of 42 gallon barrels)

Product code	Product description	Total shipments including interplant transfers	Shipments by refineries to:		
			Other refineries	Retailers and consumers	Others <sup>1</sup>
2911111- 2911198	} Gasoline and naphthas.....	1,525,508	38,768	192,931	1,293,809
2911211, 2911311	} Kerosene, including range oil and No. 1 fuel oil.....	160,171	<sup>2</sup> 2,156	20,190	137,825
2911331, 2911351, 2911398	} Distillate fuel oils (Numbers 2-4, light gas oils, and light Diesel-type fuel oils).....	603,694	<sup>2</sup> 18,521	96,962	488,211
2911411- 2911498	} Residual fuel oils (Numbers 5 and 6, Bunker C, heavy Diesel-type fuel oils, heavy gas oils, Navy special).....	350,892	17,295	115,381	218,216
2911511- 2911598	} Liquefied petroleum gases.....	106,177	22,363	30,947	52,867

<sup>1</sup>Represents shipments to bulk plants, terminals, and for export. For additional data, see Census Bulletin W-2-6 "Petroleum Bulk Plants and Terminals."

<sup>2</sup>Number 1 fuel oil included with Distillate fuel oils.



# Major Group 30.—Rubber and Plastics Products, N.E.C.

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. Automobile tire repair shops engaged in recapping and retreading automobile tires are classified in Services. Major Group 30 also includes establishments engaged in molding plastics products for the trade and fabricating miscellaneous finished plastics products. The manufacture of elastic webbing is classified in Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in Major Group 23; synthetic rubber in Industry 2822; and plastics materials in the forms of sheets, rods, tubes, granules, powders, and liquids in Industry 2821.

Based upon the 1957 revision of the Standard Industrial Classification Manual, the content of Major Group 30, Rubber and Miscellaneous Plastics Products, has been significantly changed in 1958 from the prior information published on the previous classification system. The extent of this change may be determined by comparing the data shown in table 1 for "Operating manufacturing establishments" (1958) with "Operating manufacturing establishments (based on old S.I.C.)." This change was primarily caused by the reclassification of establishments engaged in molding plastics products for the trade and fabricating miscellaneous finished plastics products from Major Group 39, Miscellaneous Manufacturing Industries, to Major Group 30, Rubber and Miscellaneous Plastics Products.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees <sup>1</sup>		Production workers			Value added by manu- facture, adjusted <sup>2</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total <sup>3</sup> .....	(NA)	(NA)	355,655	1,783,107	270,500	530,976	1,211,372	3,276,612	196,896
Administrative and auxiliary establishments <sup>6</sup>	(NA)	(NA)	7,813	59,812	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	4,462	1,827	347,842	1,723,295	270,500	530,976	1,211,372	3,276,612	196,896
Operating manufacturing establishments (based on old SIC) <sup>3</sup> .....	1,243	685	213,934	1,214,172	178,813	348,306	863,932	2,351,662	120,129
Operating manufacturing establishments:									
1957 <sup>4</sup> .....	(NA)	(NA)	259,894	1,309,851	205,342	402,846	953,723	2,462,080	148,678
1956 <sup>4</sup> .....	(NA)	(NA)	264,969	1,260,324	211,273	414,694	931,053	2,417,713	152,257
1955 <sup>4</sup> .....	(NA)	(NA)	264,869	1,257,265	213,404	437,308	946,571	2,377,068	126,716
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	252,456	1,102,979	196,238	377,414	775,499	1,954,401	128,431
Administrative and auxiliary establishments <sup>6</sup>	(NA)	(NA)	5,930	43,642	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	1,406	653	246,526	1,059,337	196,238	377,414	775,499	1,954,401	128,431
Operating manufacturing establishments:									
1953 <sup>4</sup> .....	(NA)	(NA)	269,780	1,140,019	218,853	432,359	866,215	2,021,443	127,052
1952 <sup>4</sup> .....	730	(NA)	255,079	1,042,166	205,866	408,513	785,548	1,744,141	126,918
1951 <sup>4</sup> .....	743	(NA)	252,792	962,586	206,600	414,746	734,920	1,729,343	113,706
1950 <sup>4</sup> .....	838	(NA)	238,671	837,019	196,261	392,414	644,367	1,619,927	79,958
1949 <sup>4</sup> .....	(NA)	(NA)	222,368	713,385	180,336	342,305	532,471	1,194,668	63,253
1947.....	872	(NA)	258,237	781,378	213,823	423,667	613,189	1,299,491	109,783
1939.....	595	(NA)	149,738	226,922	120,740	(NA)	161,410	406,155	(NA)
1937.....	478	(NA)	149,965	216,327	129,818	(NA)	171,305	368,773	(NA)
1935.....	466	(NA)	131,526	169,415	114,681	(NA)	133,715	308,848	(NA)
1933.....	408	(NA)	121,157	125,440	106,283	(NA)	99,117	261,347	(NA)
1931.....	453	(NA)	(NA)	(NA)	99,259	(NA)	112,596	361,398	(NA)
1929.....	525	(NA)	171,982	262,659	149,148	(NA)	207,306	538,782	(NA)
1927.....	516	(NA)	168,593	258,733	141,997	(NA)	198,074	564,707	(NA)
1925 <sup>5</sup> .....	530	(NA)	(NA)	(NA)	141,869	(NA)	191,286	539,075	(NA)
1923.....	529	(NA)	160,054	231,047	137,868	(NA)	182,084	457,355	(NA)
1921.....	496	(NA)	124,643	170,868	103,273	(NA)	123,613	327,024	(NA)
1919.....	477	(NA)	206,104	278,992	158,549	(NA)	193,763	543,872	(NA)
1914.....	342	(NA)	88,734	60,446	74,022	(NA)	44,167	137,959	(NA)
1909.....	267	(NA)	55,956	32,978	49,264	(NA)	25,137	74,650	(NA)
1904.....	265	(NA)	47,571	24,623	43,873	(NA)	20,084	68,013	(NA)
1899.....	301	(NA)	39,071	18,576	36,566	(NA)	15,427	39,640	(NA)

NA Not available.

<sup>1</sup>The figures for 1939-1958 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>3</sup>Based upon the 1957 revisions of the Standard Industrial Classification Manual, establishments engaged in molding plastics products for the trade and fabricating miscellaneous finished plastics products were reclassified from Major Group 39, Miscellaneous manufacturing industries to Major Group 30. Data for 1958 based upon old SIC and for prior years exclude data for plastic products.

<sup>4</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>5</sup>The figures for 1925-47, but not for earlier years, include data for establishments primarily engaged in manufacture of rubber cement and rubber toy balloons. Value added by manufacture for 1925, excluding data for these establishments and on a basis comparable with earlier years, was \$536.6 million.

<sup>6</sup>In addition to data for operating establishments 1954 and 1958 figures are shown for manufacturer's central administrative offices and auxiliary units. Similar data are shown for the years 1949-1953 and 1955-1957 in Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expenditures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
30	RUBBER & PLASTICS PRODUCTS NEC, TOTAL	4 462	1 827	347 842	1 723 295	270 500	530 976	1 211 372	3 276 612	196 896	338 493	24 929 560
	NEW ENGLAND . . . . .	546	294	61 388	280 369	48 564	96 833	197 103	519 965	25 025	60 959	421 718
	MAINE . . . . .	15	8	1 146	3 955	993	1 959	3 056	8 434	878	(*)	(*)
	NEW HAMPSHIRE . . . . .	13	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	VERMONT . . . . .	10	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MASSACHUSETTS . . . . .	320	164	34 679	157 454	27 270	53 905	108 812	281 894	12 358	35 115	246 597
	RHODE ISLAND . . . . .	61	36	7 589	32 295	6 088	12 185	23 557	70 697	2 044	6 995	44 043
	CONNECTICUT . . . . .	127	72	15 617	77 495	12 226	24 806	54 870	141 757	8 638	16 941	119 401
	MIDDLE ATLANTIC . . . . .	1 324	488	68 006	319 590	52 963	104 632	222 315	589 086	34 293	66 826	478 110
	NEW YORK . . . . .	702	227	25 401	113 026	20 040	39 615	78 168	193 518	13 061	23 560	155 107
	NEW JERSEY . . . . .	380	157	22 537	109 034	17 114	34 338	74 227	191 748	12 629	21 835	150 174
	PENNSYLVANIA . . . . .	242	104	20 068	97 530	15 809	30 679	69 920	203 820	8 603	21 430	172 827
	EAST NORTH CENTRAL . . . . .	1 197	584	137 387	728 961	104 397	200 892	501 673	1 256 791	80 405	139 177	969 222
	OHIO . . . . .	397	223	76 627	411 762	57 681	107 139	283 406	710 124	47 955	79 982	540 534
	INDIANA . . . . .	112	59	17 357	92 539	13 085	26 462	63 089	142 432	6 425	19 388	134 400
	ILLINOIS . . . . .	368	179	22 143	109 466	16 977	34 511	72 712	185 240	14 270	17 728	115 073
	MICHIGAN . . . . .	217	78	14 113	77 793	10 701	20 413	53 723	146 565	6 002	15 682	129 200
	WISCONSIN . . . . .	103	45	7 147	37 401	5 953	12 367	28 743	72 430	5 753	6 395	50 012
	WEST NORTH CENTRAL . . . . .	231	72	12 089	59 264	9 876	19 256	45 626	140 241	11 257	9 966	93 444
	MINNESOTA . . . . .	74	20	2 106	9 027	1 749	3 352	6 764	15 071	908	1 296	9 586
	IOWA . . . . .	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3 565	38 400
	MISSOURI . . . . .	95	30	2 828	11 573	2 328	4 511	8 660	23 001	1 453	(*)	(*)
	NORTH DAKOTA . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA . . . . .	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA . . . . .	18	7	1 146	5 257	897	1 792	3 853	9 799	402	(*)	(*)
	KANSAS . . . . .	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH ATLANTIC . . . . .	225	89	17 898	74 823	14 383	29 000	53 686	146 371	12 772	15 387	98 553
	DELAWARE . . . . .	10	5	2 016	9 868	1 483	2 805	6 433	15 233	621	(*)	(*)
	MARYLAND . . . . .	42	23	8 392	37 635	6 976	14 346	27 743	74 000	6 178	7 730	51 702
	DISTRICT OF COLUMBIA . . . . .	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	VIRGINIA . . . . .	23	10	2 505	8 701	1 954	3 991	6 191	15 594	2 497	(*)	(*)
	WEST VIRGINIA . . . . .	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NORTH CAROLINA . . . . .	24	14	1 900	7 676	1 550	3 014	5 761	18 078	1 334	1 386	10 742
	SOUTH CAROLINA . . . . .	10	5	953	3 778	657	1 453	2 166	8 506	606	(*)	(*)
	GEORGIA . . . . .	36	17	1 061	3 762	845	1 729	2 611	8 755	576	815	7 500
	FLORIDA . . . . .	71	12	711	2 108	599	1 042	1 597	3 687	873	635	2 641
	EAST SOUTH CENTRAL . . . . .	80	44	13 116	67 429	10 902	21 670	53 461	183 854	6 834	12 801	139 529
	KENTUCKY . . . . .	17	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	TENNESSEE . . . . .	41	20	5 032	24 391	4 113	7 749	18 972	66 562	2 815	5 570	54 800
	ALABAMA . . . . .	15	13	5 799	33 178	5 058	10 492	27 416	96 790	3 108	5 600	68 000
	MISSISSIPPI . . . . .	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	148	40	7 512	35 440	6 345	13 114	28 269	108 406	6 446	4 502	62 387
	ARKANSAS . . . . .	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	LOUISIANA . . . . .	10	1	133	697	106	275	551	1 580	86	(*)	(*)
	OKLAHOMA . . . . .	23	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	TEXAS . . . . .	101	29	4 646	21 769	3 816	7 876	16 689	62 379	3 324	(*)	(*)
	WEST . . . . .	711	216	30 446	157 419	23 070	45 579	109 239	331 898	19 864	28 868	229 980
	IDAHO . . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WYOMING . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	COLORADO . . . . .	24	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ARIZONA . . . . .	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	UTAH . . . . .	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEVADA . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WASHINGTON . . . . .	37	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	OREGON . . . . .	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	CALIFORNIA . . . . .	612	197	23 810	122 970	18 287	36 076	85 110	248 361	14 703	22 616	177 565
301	TIRES AND INNER TUBES, TOTAL <sup>1</sup> . . . . .	123	86	89 395	521 855	69 959	133 268	388 702	1 179 957	72 269	92 748	844 545
302	RUBBER FOOTWEAR, TOTAL <sup>1</sup> . . . . .	27	26	20 359	85 611	17 602	34 131	68 573	149 608	3 109	18 322	107 027
303	RECLAIMED RUBBER, TOTAL <sup>1</sup> . . . . .	16	14	2 215	11 658	1 793	3 330	9 076	20 843	964	2 953	22 043
306	FABRICATED RUBBER PRODUCTS, NEC, TOTAL <sup>1</sup> . . . . .	1 074	558	119 565	592 964	89 158	176 994	396 129	997 254	43 603	132 503	930 087
307	PLASTICS PRODUCTS, NEC, TOTAL <sup>1</sup> . . . . .	3 222	1 143	116 308	511 207	91 988	183 253	348 892	928 950	76 951	91 967	589 254

Note: Due to a change in the Standard Industrial Classification system between the two census years the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.



Table 3-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Rubber and plastics products, nec (SIC 30)	Tires and inner tubes (SIC 301)	Rubber footwear (SIC 302)	Reclaimed rubber (SIC 303)	Fabricated rubber products, nec (SIC 306)	Plastics products, nec (SIC 307)
Number of establishments, total.....	4,462	123	27	16	1,074	3,222
With 1-19 employees.....	2,635	37	1	2	516	2,079
With 20-99 employees.....	1,268	32	5	7	330	894
With 100 employees or more.....	559	54	21	7	228	249
Proprietors and working partners.....Number..	1,528	28	1	2	307	1,190
All employees:						
Number (average for the year).....	347,842	89,395	20,359	2,215	119,565	116,308
Payroll.....\$1,000..	1,723,295	521,855	85,611	11,658	592,964	511,207
Production workers:						
Number (average for the year).....	270,500	69,959	17,602	1,793	89,158	91,988
March.....	266,748	70,562	17,714	1,768	87,249	89,455
May.....	258,068	66,538	17,288	1,728	83,926	88,588
August.....	270,955	70,006	17,403	1,804	88,767	92,975
November.....	287,588	72,766	18,015	1,864	97,059	97,884
Man-hours.....1,000..	530,976	133,268	34,131	3,330	176,994	183,253
January-March.....do....	129,634	32,555	8,806	820	43,643	43,810
April-June.....do....	126,675	31,905	8,685	805	41,136	44,144
July-September.....do....	128,304	32,343	7,685	793	42,469	45,014
October-December.....do....	144,993	36,433	8,954	912	49,416	49,278
Wages.....\$1,000..	1,211,372	388,702	68,573	9,076	396,129	348,892
Value added by manufacture, adjusted.....do....	3,276,612	1,179,957	149,608	20,843	997,254	928,950
Cost of fuels consumed.....do....	39,331	13,505	1,120	517	14,689	9,500
Cost of electricity purchased.....do....	58,520	16,608	1,691	1,534	19,097	19,590
Manufacturers' inventories:						
Beginning of year, total.....do....	956,842	400,465	47,899	5,713	277,641	225,124
Finished products.....do....	483,241	233,088	34,183	2,775	126,643	86,552
Work-in-process.....do....	151,334	50,604	4,507	588	52,533	43,102
Materials, supplies, fuels, etc.....do....	322,267	116,773	9,209	2,350	98,465	95,470
End of year, total.....do....	927,552	371,807	49,082	5,770	265,054	235,839
Finished products.....do....	480,395	227,329	36,235	3,002	120,169	93,660
Work-in-process.....do....	147,782	45,226	4,339	559	52,308	45,350
Materials, supplies, fuels etc.....do....	299,375	99,252	8,508	2,209	92,577	96,829
Expenditures for plant and equipment, total.....do....	203,106	73,351	3,193	964	45,782	79,816
New, total.....do....	196,896	72,269	3,109	964	43,603	76,951
New structures and additions to plant.....do....	43,264	12,596	461	100	9,016	21,091
New machinery and equipment.....do....	153,632	59,673	2,648	864	34,587	55,860
Used plant and equipment.....do....	6,210	1,082	84	...	2,179	2,865

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.







# Rubber and Miscellaneous Plastic Products

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3011—Tires and Inner Tubes
- 3021—Rubber Footwear
- 3031—Reclaimed Rubber
- 3069—Fabricated Rubber Products, N.E.C.
- 3079—Miscellaneous Plastics Products

Establishments classified in Major Group 30 are primarily engaged in manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments engaged in molding primary plastics for the trade, and manufacturing miscellaneous finished plastics products. The manufacture of elastic webbing is classified in Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in Major Group 23; synthetic rubber (vulcanizable elastomers) in Industry 2822; and plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids in Industry 2821.

Many products are made either from plastics or rubber materials. With the increasing use of various kinds of synthetic rubber, the ability of respondents to distinguish between rubber and plastics materials is becoming more difficult. To help them classify their products, the following definition appeared on the reporting schedule: "The term 'rubber' includes products made from natural, synthetic, or reclaimed rubbers. The term plastic is defined to include synthetic resinous materials which are not described as 'elastomers,' a material which, when vulcanized, will stretch repeatedly to 150 percent or more and will return rapidly and with force to its approximate original state. Synthetic elastomers include synthetic rubber.

The quantities of natural, chemical, and reclaimed rubber, and plastics materials consumed by the rubber industries and plastics materials consumed by the Miscellaneous Plastics Products Industry are shown in table 7A, Materials Consumed by Kind. Additional rubber consumption data appear in tables 7B and 7C. These data are also limited to the quantities consumed by establishments classified in specified rubber industries. Data showing the quantities of rubber consumed in wire and cable appear with the statistics for Industry 3357, Drawing and Insulation of Nonferrous Wire. Thus, the statistics appearing in the table 7 series do not represent total rubber consumption in the United States for all manufactured rubber products. Estimates of total rubber consumption are published in the Current Industrial Reports, Series M30A, "Rubber Supply and Distribution for the United States."

## 3011—Tires and Inner Tubes

This industry comprises establishments primarily engaged in manufacturing pneumatic casings, inner tubes,

and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles, as well as tiring, tire repair, and tire retreading (camelback) materials. For a detailed list of products of Industry 3011, refer to table 6A, product codes 3011000 to 3011561.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged but the content of the industry has been slightly changed from the previous classification system.

Tire retreading materials (camelback), tire repair materials, tire flaps, and tiring, formerly included in the old Standard Industrial Classification Industry 3099, Fabricated Rubber Products, N.E.C., are now classified in Industry 3011, Tires and Inner Tubes. Figures for 1958 and previous years on the old S.I.C. definitions are shown in tables 1 and 2A.

Value of shipments and other receipts of the Tire and Inner Tubes Industry in 1958 totaled \$2,578 million. This included shipments of tires and inner tubes (primary products), valued at \$2,122 million, shipments of other products (secondary products) valued at \$197 million, and miscellaneous receipts of \$259 million.

This industry's shipments of tires and inner tubes (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of mechanical rubber goods, and other rubber products.

Industry 3011 shipments of tires and inner tubes (primary products) in 1958 represented 99 percent (coverage ratio) of these products valued at \$2,145 million shipped by all industries. Other industries shipping tires and inner tubes (primary products) consisted mainly of Industry 3069, Fabricated Rubber Products, N.E.C.

## 3021—Rubber Footwear

This industry comprises establishments primarily engaged in manufacturing all-rubber footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber soles vulcanized to the uppers. Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips and related shoe making and repairing materials are classified in Industry 3069. For a detailed list of products of Industry 3021, refer to table 6A, product codes 3021000 to 3021098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Rubber Footwear Industry in 1958 totaled \$229 million. This included shipments of rubber footwear (primary products) and other products (secondary products) valued at \$218 million, and miscellaneous receipts of \$11 million.

Secondary products shipped by this industry in 1958 consisted mainly of mechanical rubber goods and fabricated plastics products, n.e.c.



The degree to which plants specialize in the manufacture of rubber footwear for 1954 is indicated in table 8.

Other industries shipping rubber footwear (primary products) consisted mainly of Industry 3069, Fabricated Rubber Products, N.E.C.

### 3031-Reclaimed Rubber

This industry comprises establishments primarily engaged in reclaiming rubber from scrap rubber tires, tubes, and miscellaneous waste rubber articles by processes which result in a devulcanized, depolymerized or regenerated, replasticized product containing added ingredients. This product is sold for use as a raw material in the manufacture of rubber goods with or without admixture with crude rubber or artificial rubber. Establishments primarily engaged in the assembly and wholesale of scrap rubber are classified in trade industries. For a detailed list of products of Industry 3031, refer to table 6A, product codes 3031011 and 3031051.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Reclaimed Rubber Industry in 1958 totaled \$39 million. This included shipments of reclaimed rubber (primary products), valued at \$34 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts of \$3 million.

This industry's shipments of reclaimed rubber (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent. Secondary products shipped by this industry in 1958 consisted mainly of other rubber products (\$1 million).

Industry 3031 shipments of reclaimed rubber (primary products) in 1958 represented 72 percent (coverage ratio) of these products valued at \$48 million shipped by all industries. In 1954, the coverage ratio was 74 percent. Other industries shipping reclaimed rubber (primary products) consisted mainly of Industry 3069, Fabricated Rubber Products, N.E.C.

### 3069-Fabricated Rubber Products, N.E.C.

This industry comprises establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in Industry 7534. For a detailed list of products of Industry 3069, refer to table 6A, product codes 3069000 to 3069898.

The code number for this industry was changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. Also, the content of the industry has been slightly changed. Tire retreading materials (camelback), tire repair materials, tire flaps, and tiring, formerly included in this industry are now classified in Industry 3011, Tires and Inner Tubes. Figures for 1958 and previous years on the old S.I.C. definitions are shown in tables 1 and 2A. In addition, factory rebuilt or retreaded tires included in this industry from

1954 through 1957 are included for 1958 in Service Industry 7534, Tire Repair Shops.

Value of shipments and other receipts of the Fabricated Rubber Products, N.E.C., Industry in 1958 totaled \$1,885 million. This included shipments of fabricated rubber products, n.e.c. (primary products), valued at \$1,509 million, shipments of other products (secondary products) valued at \$253 million, and miscellaneous receipts of \$123 million.

This industry's shipments of fabricated rubber products, n.e.c. (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of miscellaneous plastics products and other rubber products.

Industry 3069 shipments of fabricated rubber products, n.e.c. (primary products) in 1958 represented 86 percent (coverage ratio) of these products valued at \$1,759 million shipped by all industries. Other industries shipping fabricated rubber products, n.e.c. (primary products) consisted mainly of Industry 3011, Tires and Inner Tubes, and Industry 3079, Miscellaneous Plastics Products.

### 3079-Miscellaneous Plastics Products

This industry comprises establishments primarily engaged in molding primary plastics for the trade, and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids are classified in Industry 2821, and those primarily engaged in manufacturing artificial leather in Industry 2295. For a detailed list of products of Industry 3079, refer to table 6A, product codes 3079000 to 3079998.

The code number for this industry was changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. Also, the content of the industry has been slightly changed. Synthetic sausage casings, formerly classified in the old Standard Industrial Classification Industry 2014, Sausage Casings, Natural and Synthetic, are now classified in Industry 3079, Plastics Products, N.E.C. Figures for 1958 and previous years on the old S.I.C. definitions are shown in tables 1 and 2A.

Value of shipments and other receipts of the Plastics Products, N.E.C., Industry in 1958 totaled \$1,868 million. This included shipments of miscellaneous plastics products (primary products), valued at \$1,632 million, shipments of other products (secondary products) valued at \$160 million, and miscellaneous receipts of \$76 million.

This industry's shipments of miscellaneous plastics products (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of plastics materials and fabricated rubber products, n.e.c.

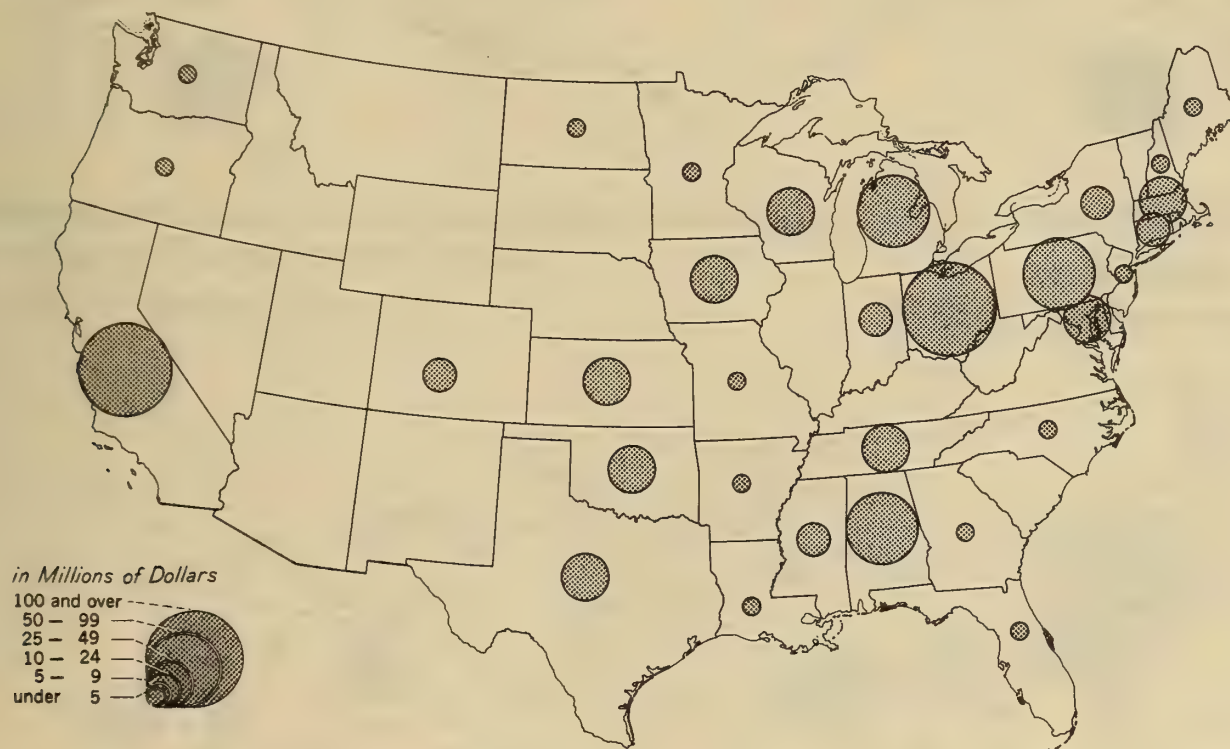
Industry 3079 shipments of miscellaneous plastics products (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$1,914 million shipped by all industries. Other industries shipping miscellaneous plastics products (primary products) consisted mainly of Industry 3069, Fabricated Rubber Products, N.E.C., and Industry 2821, Plastics materials.



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## TIRES AND INNER TUBES: SIC 301

Value Added by Manufacture by State: 1958



Includes only Industry 3011. See Table 2.

Bureau of the Census M-58-D301



**RUBBER FOOTWEAR: SIC 302**

Value Added by Manufacture by State: 1958



Includes only Industry 3021. See Table 2.

Bureau of the Census M-58-D302

**RECLAIMED RUBBER: SIC 303**

Value Added by Manufacture by State: 1958



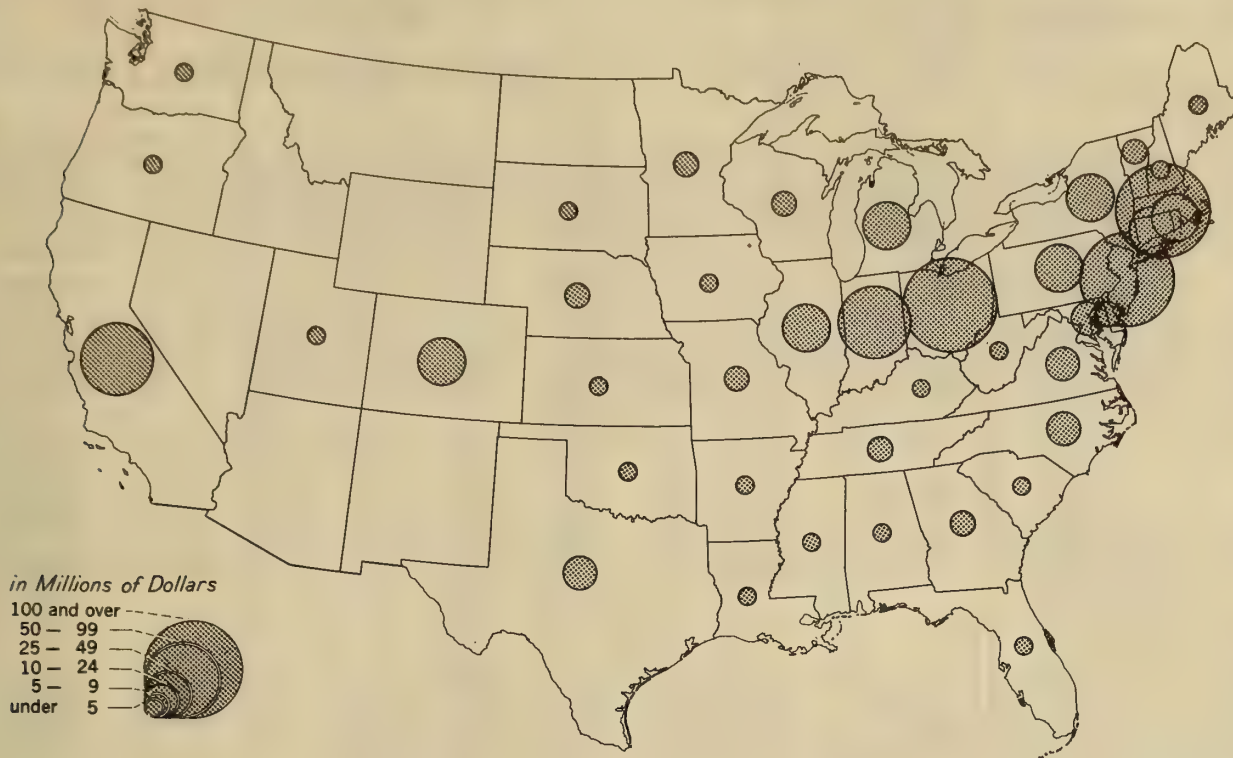
Includes only Industry 3031. See Table 2.

Bureau of the Census M-58-D303



## FABRICATED RUBBER PRODUCTS, NEC: SIC 306

Value Added by Manufacture by State: 1958

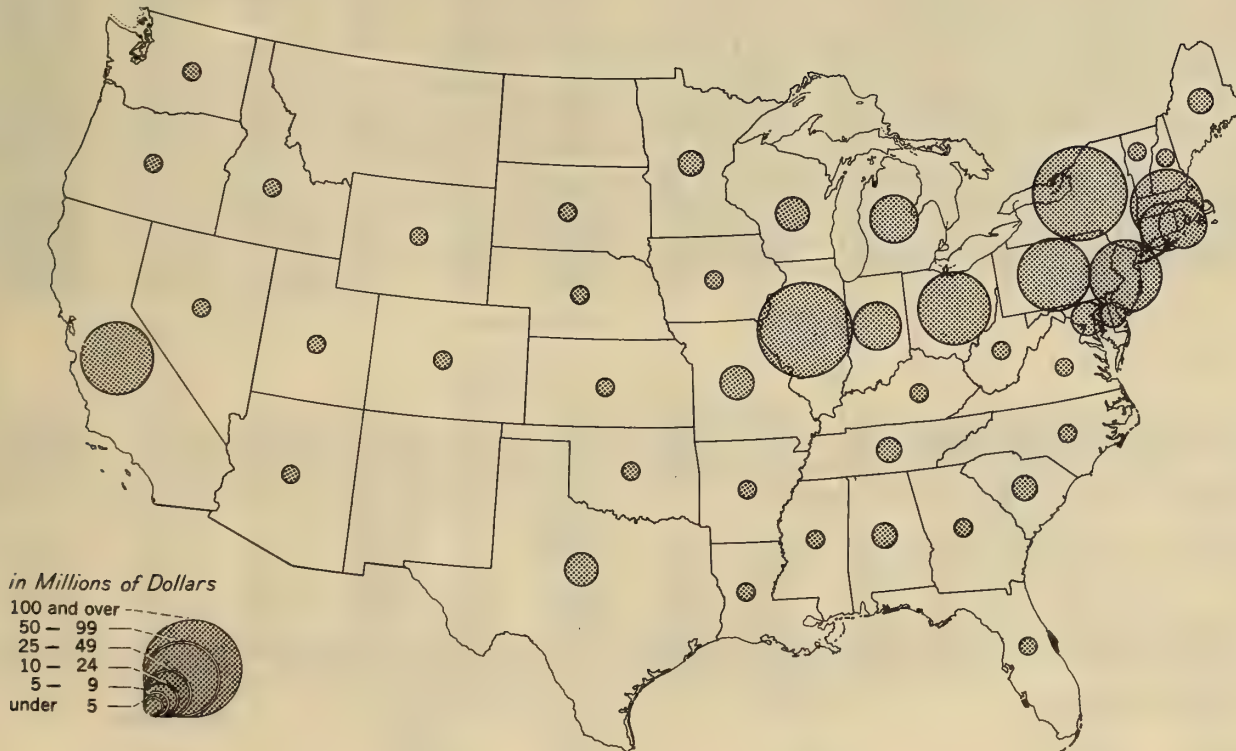


Includes only Industry 3069. See Table 2.

Bureau of the Census M-58-D306

## MISCELLANEOUS PLASTICS PRODUCTS: SIC 307

Value Added by Manufacture by State: 1958



Includes only Industry 3079. See Table 2.

Bureau of the Census M-58-D307



## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States. 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3011 (old SIC 3011)	Tires and inner tubes:														
	1958 (new).....	94	123	86	89,395	521,855	69,959	133,268	388,702	1,179,957	1,386,694	2,577,788	72,269	91	99
	1958 (old) <sup>8</sup> .....	(NA)	62	55	87,246	510,786	68,268	129,888	382,181	1,155,205	1,353,178	2,519,765	70,611	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	96,889	556,893	76,643	148,666	419,829	1,118,060	1,228,367	2,295,173	91,029	87	99
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	98,280	528,580	78,218	150,226	403,639	1,093,034	1,262,269	2,286,823	86,452	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	98,653	547,517	79,421	166,985	427,948	1,096,390	1,316,427	2,336,963	69,056	(NA)	(NA)
	1954.....	27	49	46	92,748	441,607	73,976	137,981	334,104	877,771	1,115,813	1,997,399	67,430	88	99
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	97,026	462,653	79,187	154,833	367,545	904,973	1,167,765	2,072,738	79,733	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	97,911	452,458	79,933	157,868	355,853	762,369	1,232,793	1,995,162	72,897	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	92,244	402,966	75,732	151,418	315,752	753,633	1,313,559	2,067,192	58,008	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	89,520	357,291	73,899	146,074	283,109	763,787	960,917	1,724,704	42,229	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	87,042	300,663	70,992	130,052	233,429	518,968	752,665	1,271,633	25,899	(NA)	(NA)
	1947.....	35	57	49	115,657	390,841	93,916	185,392	311,276	650,165	944,215	1,547,040	54,883	90	95
	1939.....	(NA)	53	(NA)	67,169	122,164	54,115	(NA)	89,774	231,372	349,557	580,929	(NA)	(NA)	(NA)
	1937.....	(NA)	46	(NA)	74,242	122,031	63,290	(NA)	96,707	209,002	366,858	575,860	(NA)	(NA)	(NA)
	1935.....	(NA)	42	(NA)	65,715	97,061	57,128	(NA)	78,253	180,577	265,515	446,092	(NA)	(NA)	(NA)
	1933.....	(NA)	44	(NA)	61,227	70,648	52,976	(NA)	54,737	159,921	139,392	299,313	(NA)	(NA)	(NA)
	1931.....	(NA)	48	(NA)	(NA)	(NA)	49,159	(NA)	63,089	232,679	173,604	406,283	(NA)	(NA)	(NA)
	1929.....	(NA)	91	(NA)	96,244	158,180	83,263	(NA)	127,082	340,570	429,607	770,177	(NA)	(NA)	(NA)
	1927.....	(NA)	109	(NA)	95,418	160,494	78,256	(NA)	120,064	370,467	499,221	869,688	(NA)	(NA)	(NA)
	1925.....	(NA)	126	(NA)	96,063	152,964	81,640	(NA)	120,614	365,062	559,940	925,002	(NA)	(NA)	(NA)
	1923.....	(NA)	160	(NA)	87,059	139,711	73,963	(NA)	108,623	279,029	365,165	644,194	(NA)	(NA)	(NA)
	1921.....	(NA)	178	(NA)	68,864	107,119	55,496	(NA)	75,054	204,569	291,554	496,123	(NA)	(NA)	(NA)
3021 (old SIC 3021)	Rubber Footwear:														
	1958.....	22	27	26	20,359	85,611	17,602	34,131	68,573	149,608	81,715	229,439	3,109	(D)	(D)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,179	81,635	17,474	33,808	65,683	144,844	74,374	219,466	2,947	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,655	83,462	18,926	36,958	68,320	139,664	77,590	209,069	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,113	73,039	17,576	34,268	59,244	115,173	73,169	185,545	(S)	(NA)	(NA)
	1954.....	19	22	21	18,322	64,022	15,773	30,317	51,296	106,768	63,651	171,471	4,217	84	85
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	25,384	87,549	21,685	42,540	69,594	128,660	90,860	219,520	4,779	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	23,274	79,626	19,638	39,561	63,181	124,842	88,768	213,610	3,230	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	23,813	73,317	20,258	40,384	58,177	113,791	97,365	211,156	5,294	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	18,924	53,301	15,672	31,389	40,715	86,123	53,433	139,556	3,820	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	24,331	68,184	20,384	39,564	52,468	107,333	72,318	179,651	2,158	(NA)	(NA)
	1947.....	20	26	21	28,125	72,666	23,952	48,954	58,462	121,040	80,607	198,691	4,982	80	99
	1939.....	(NA)	13	(NA)	18,098	22,056	14,861	(NA)	16,802	29,231	20,750	49,981	(NA)	(NA)	(NA)
	1937.....	(NA)	12	(NA)	20,731	24,645	18,356	(NA)	20,422	36,980	27,475	64,455	(NA)	(NA)	(NA)
	1935.....	(NA)	12	(NA)	19,377	19,838	17,246	(NA)	16,113	32,341	20,821	53,162	(NA)	(NA)	(NA)
	1933.....	(NA)	13	(NA)	20,131	17,609	18,102	(NA)	14,440	27,895	14,124	42,019	(NA)	(NA)	(NA)
	1931.....	(NA)	15	(NA)	(NA)	(NA)	15,882	(NA)	13,770	35,607	12,298	47,905	(NA)	(NA)	(NA)
	1929.....	(NA)	22	(NA)	29,278	37,690	25,659	(NA)	29,945	68,142	34,396	102,538	(NA)	(NA)	(NA)
	1927.....	(NA)	22	(NA)	30,267	37,260	26,848	(NA)	32,079	81,235	43,373	124,608	(NA)	(NA)	(NA)
	1925.....	(NA)	23	(NA)	28,402	33,434	24,999	(NA)	28,058	75,369	40,566	115,935	(NA)	(NA)	(NA)
	1923.....	(NA)	25	(NA)	32,989	39,431	29,435	(NA)	33,671	86,471	45,269	131,740	(NA)	(NA)	(NA)
	1921.....	(NA)	24	(NA)	27,436	28,964	23,888	(NA)	23,428	61,900	32,133	94,033	(NA)	(NA)	(NA)
	1919.....	(NA)	25	(NA)	37,928	38,284	32,875	(NA)	30,883	66,570	50,347	116,917	(NA)	(NA)	(NA)
	1914.....	(NA)	23	(NA)	20,357	11,945	18,687	(NA)	9,986	29,866	23,956	53,822	(NA)	(NA)	(NA)
	1909.....	(NA)	22	(NA)	18,899	9,959	17,612	(NA)	8,544	20,144	29,577	49,721	(NA)	(NA)	(NA)
	1904.....	(NA)	22	(NA)	19,813	9,741	18,991	(NA)	8,867	38,065	32,000	70,065	(NA)	(NA)	(NA)
	1899.....	(NA)	22	(NA)	14,874	7,024	14,391	(NA)	6,427	18,407	22,683	41,090	(NA)	(NA)	(NA)
3031 (old SIC 3031)	Reclaimed rubber:														
	1958.....	12	16	14	2,215	11,658	1,793	3,330	9,076	20,843	18,615	39,260	964	94	72
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,742	13,965	2,298	4,647	10,690	25,110	21,116	46,504	2,549	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	3,338	15,670	2,815	5,519	12,056	28,339	24,965	51,330	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	3,218	16,411	2,726	5,812	12,862	31,914	26,070	55,596	(S)	(NA)	(NA)
	1954.....	15	20	18	2,953	12,697	2,460	4,602	9,671	23,454	40,149	63,599	2,834	87	74
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,368	10,403	2,013	3,871	8,127	16,172	14,100	30,272	1,004	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,259	9,503	1,932	3,769	7,539	16,534	14,138	30,673	1,334	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,696	11,623	2,367	5,079	9,713	18,025	23,442	41,467	2,151	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,365	9,312	2,097	4,485	7,834	16,707	14,980	31,687	535	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,153	7,070	1,868	4,249	5,763	10,460	19,740	705	705	(NA)	(NA)
	1947.....	14	15	11	2,070	6,849	1,855	4,015	5,826	9,604	8,049	17,263	2,864	95	44
	1939.....	(NA)	10	(NA)	1,282	1,970	1,072	(NA)	1,477	3,902	2,992	6,894	(NA)	(NA)	(NA)
	1937.....	(NA)	9	(NA)	(NA)	(NA)	1,258	(NA)	1,830	3,771	4,172	7,943	(NA)	(NA)	(NA)

See footnotes at end of table.



# RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

30A-7

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>2</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3069 (old SIC 3099)	Fabricated rubber products, nec														
	1958 (new).....	976	1,074	558	119,565	592,964	89,158	176,994	396,129	997,254	881,321	1,885,274	43,603	86	86
	1958 (old) <sup>8</sup> .....	(NA)	1,138	590	122,114	606,033	91,209	181,124	404,250	1,026,006	917,837	1,950,297	45,365	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	140,084	657,358	108,927	215,725	457,521	1,174,066	951,847	2,094,765	52,153	86	80
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	141,696	632,612	111,314	221,991	447,038	1,156,676	927,766	2,039,972	64,047	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	142,885	620,298	113,681	230,243	446,517	1,133,591	939,729	2,036,622	55,984	(NA)	(NA)
	1954.....	1,152	1,315	(NA)	132,503	541,011	104,028	204,513	380,427	946,407	830,253	1,777,331	53,949	88	78
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	145,002	579,414	115,968	231,115	420,949	971,638	840,417	1,812,055	41,536	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	131,635	500,579	104,363	207,315	358,975	840,396	803,594	1,643,605	49,457	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	134,039	474,680	108,243	217,865	351,278	843,894	826,147	1,669,655	48,253	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	127,656	417,115	104,593	210,466	312,709	753,310	589,830	1,342,755	33,374	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	108,842	337,468	87,092	168,440	240,811	559,087	438,100	1,000,005	34,491	(NA)	(NA)
	1947.....	733	774	(NA)	112,385	311,022	94,100	185,306	237,625	518,682	436,410	945,257	47,054	85	81
	1939.....	(NA)	519	(NA)	63,189	80,733	50,692	(NA)	53,358	141,650	122,875	264,525	(NA)	(NA)	(NA)
	1937.....	(NA)	411	(NA)	(NA)	(NA)	46,914	(NA)	52,346	119,019	115,755	234,774	(NA)	(NA)	(NA)
3079 (old SIC 3971)	Plastics products, nec.														
	1958 (new).....	3,093	3,222	1,143	116,308	511,207	91,988	183,253	348,892	928,950	948,283	1,867,877	76,951	91	85
	1958 (old) <sup>8</sup> .....	(NA)	3,208	1,136	113,066	492,436	89,905	178,812	337,510	894,440	935,142	1,822,087	75,229	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	111,590	466,536	90,547	176,085	320,797	797,942	748,315	1,534,110	53,084	89	79
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	106,754	426,125	87,764	175,094	303,193	742,596	730,349	1,459,103	67,315	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	99,479	390,283	82,386	167,012	278,163	697,283	681,284	1,363,955	47,172	(NA)	(NA)
	1954.....	2,377	2,439	829	91,967	350,227	75,689	152,179	248,975	598,388	632,976	1,227,116	45,290	90	84
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	85,107	322,572	72,144	145,175	237,694	543,713	488,173	1,031,886	28,934	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	74,628	275,825	60,520	126,421	191,211	514,279	449,859	964,138	34,658	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	75,162	260,604	60,444	125,966	185,327	475,566	440,010	915,576	37,294	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	75,555	245,198	63,997	132,794	179,585	473,350	400,756	874,106	36,203	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	59,077	169,295	47,822	92,985	120,986	303,837	249,877	553,714	(NA)	(NA)	(NA)
	1947.....	(NA)	1,362	(NA)	58,400	156,369	49,502	102,331	119,455	258,917	214,040	472,957	27,042	91	89
	1939.....	(NA)	216	(NA)	17,953	24,289	15,094	(NA)	17,688	40,157	31,747	71,904	(NA)	(NA)	(NA)
	1937.....	(NA)	129	(NA)	(NA)	(NA)	14,184	(NA)	16,955	35,499	26,640	62,139	(NA)	(NA)	(NA)

NA Not available. <sup>†</sup>Revised.

<sup>1</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>2</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>3</sup> The method of compiling these figures has varied, as follows: **All employees:** for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>4</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3011	844,545	3069	930,086
3021	107,027	3079	589,254
3031	22,043		

<sup>5</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3011	1,188,865	997,186	3069	788,854	746,986
3021	72,307	59,339	3079	909,808	603,645
3031	16,993	16,953			

<sup>6</sup> For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3011	2,326,155	1,841,732	3069	1,774,730	1,677,072
3021	219,001	166,367	3079	1,822,457	1,192,895
3031	37,603	38,996			

Footnotes continued on next page.



## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for Table 1-30A

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. These adjusted 1958 figures and earlier figures are on the old SIC definition of the industry.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital ex- penditures, new (\$1,000)	All em- ployees, number	Value added by manufac- ture, unadjusted (\$1,000)	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3011	Tires and inner tubes, total <sup>2</sup> .....	123	86	89,395	521,855	69,959	133,268	388,702	1,179,957	2,577,788	72,269	(3)	(3)	(3)
	Northeast.....	25	15	12,048	71,933	9,445	19,299	53,975	178,970	381,021	7,954	(3)	(3)	(3)
	Pennsylvania.....	9	9	5,352	30,099	4,531	8,860	24,448	91,995	183,491	3,027	(3)	(3)	(3)
	North Central.....	42	31	51,962	305,081	39,976	73,163	221,408	608,381	1,394,055	46,058	(3)	(3)	(3)
	Ohio.....	21	19	35,887	205,442	27,269	48,290	146,204	384,119	906,103	30,952	(3)	(3)	(3)
	South.....	33	22	15,020	84,508	12,633	25,399	69,050	257,588	527,412	12,531	(3)	(3)	(3)
	West.....	23	18	10,365	60,333	7,905	15,407	44,269	135,018	275,300	5,726	(3)	(3)	(3)
3021	Rubber footwear, total.....	27	26	20,359	85,611	17,602	34,131	68,573	149,608	229,439	3,109	18,322	107,027	28,125
	Northeast.....	19	18	15,181	66,720	12,998	25,343	53,647	119,417	176,753	2,291	13,938	85,539	(D)
	North Central, South, and West..	8	8	5,178	18,891	4,604	8,788	14,926	30,191	52,686	818	4,384	21,488	(D)
3031	Reclaimed rubber, total.....	16	14	2,215	11,658	1,793	3,330	9,076	20,843	39,260	964	2,953	22,043	2,070
	Middle Atlantic...	4	4	429	2,483	358	716	1,934	3,998	7,055	(4)	983	6,367	639
	North Central, South, and West..	12	10	1,786	9,175	1,435	2,614	7,142	16,845	32,205	774	1,970	15,676	1,431
3069	Fabricated rubber products, nec, total <sup>2</sup> .....	1,074	558	119,565	592,964	89,158	176,994	396,129	997,254	1,885,274	43,603	(3)	(3)	(3)
	New England.....	151	101	23,748	114,117	17,791	35,582	74,318	200,971	389,058	9,030	(3)	(3)	(3)
	Massachusetts...	85	55	13,945	66,717	10,361	20,713	42,721	120,155	243,266	3,873	(3)	(3)	(3)
	Middle Atlantic...	246	105	23,504	116,930	16,842	33,098	75,750	191,567	340,790	6,014	(3)	(3)	(3)
	New York.....	84	23	5,738	27,487	3,954	7,700	16,756	42,855	79,327	1,349	(3)	(3)	(3)
	New Jersey.....	102	56	12,172	61,763	8,828	17,546	41,313	103,940	182,462	3,167	(3)	(3)	(3)
	Pennsylvania.....	60	26	5,594	27,680	4,060	7,852	17,681	44,772	79,001	1,498	(3)	(3)	(3)
	North Central.....	393	216	51,123	264,711	38,101	74,971	178,060	402,661	777,744	16,779	(3)	(3)	(3)
	Ohio.....	156	100	29,223	152,378	21,345	40,833	100,025	222,262	443,518	8,810	(3)	(3)	(3)
	South Atlantic....	71	44	7,777	30,791	6,302	12,720	22,753	58,748	123,567	3,888	(3)	(3)	(3)
	Maryland.....	12	10	2,099	7,915	1,777	3,693	5,869	14,148	25,250	(4)	(3)	(3)	(3)
	Virginia.....	11	6	1,834	6,590	1,393	2,911	4,811	11,108	22,022	1,849	(3)	(3)	(3)
	North Carolina..	11	8	1,548	6,463	1,255	2,445	4,871	14,740	31,460	1,016	(3)	(3)	(3)
	Georgia.....	21	11	685	2,252	549	1,102	1,538	5,788	18,944	(4)	(3)	(3)	(3)
	East South Central	25	12	1,568	6,748	1,266	2,536	4,798	14,624	32,882	1,089	(3)	(3)	(3)
	Tennessee.....	16	7	929	4,149	694	1,291	2,670	7,966	22,326	915	(3)	(3)	(3)
	West South Central	31	13	1,721	7,143	1,454	3,030	5,609	13,204	27,097	(4)	(3)	(3)	(3)
	West.....	157	67	10,124	52,524	7,402	15,057	34,841	115,479	194,136	6,431	(3)	(3)	(3)
3079	Plastics products, nec, total <sup>2</sup> .....	3,222	1,143	116,308	511,207	91,988	183,253	348,892	928,950	1,867,877	76,951	(3)	(3)	(3)
	Northeast.....	1,425	539	54,484	227,776	44,093	87,427	159,794	414,128	846,975	33,839	(3)	(3)	(3)
	Maine.....	10	7	1,017	3,493	876	1,726	2,712	7,723	13,059	807	(3)	(3)	(3)
	New Hampshire...	7	4	343	1,066	296	596	720	1,690	3,156	(4)	(3)	(3)	(3)
	Vermont.....	8	5	331	1,217	288	553	918	1,918	3,564	(4)	(3)	(3)	(3)
	Rhode Island....	43	21	2,645	9,322	2,183	4,398	7,203	28,908	51,601	1,060	(3)	(3)	(3)
	Connecticut.....	81	39	3,920	18,145	3,164	6,402	12,770	30,813	57,230	2,753	(3)	(3)	(3)
	Pennsylvania....	168	64	8,320	37,438	6,451	12,506	25,632	63,729	128,031	3,999	(3)	(3)	(3)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3079	Plastics products, nec--Continued													
	East North Central	812	349	38,756	185,983	29,899	60,263	124,060	331,257	660,173	25,164	(3)	(3)	(3)
	Ohio.....	213	98	10,336	48,291	8,120	16,337	32,637	92,564	188,997	7,552	(3)	(3)	(3)
	Indiana.....	64	32	4,993	24,650	3,726	7,405	16,085	38,853	92,882	3,692	(3)	(3)	(3)
	Illinois.....	296	137	16,311	80,954	12,429	25,443	53,655	140,440	256,578	10,500	(3)	(3)	(3)
	Michigan.....	162	49	4,302	20,228	3,368	6,650	13,514	35,588	73,332	1,852	(3)	(3)	(3)
	Wisconsin.....	77	33	2,814	11,860	2,256	4,428	8,169	23,812	48,384	1,568	(3)	(3)	(3)
	West North Central	170	50	4,205	17,171	3,441	6,479	12,297	29,685	58,271	2,748	(3)	(3)	(3)
	Minnesota.....	53	14	1,122	4,554	915	1,738	3,292	7,584	13,995	607	(3)	(3)	(3)
	Iowa.....	15	4	890	3,702	690	1,188	2,423	4,358	9,828	645	(3)	(3)	(3)
	Missouri.....	69	21	1,687	6,999	1,432	2,789	5,218	14,213	27,600	1,121	(3)	(3)	(3)
	Kansas.....	16	5	225	893	178	322	688	1,251	2,655	(4)	(3)	(3)	(3)
	South.....	287	77	9,548	38,202	7,357	15,019	24,607	76,052	153,563	7,636	(3)	(3)	(3)
	Maryland.....	26	9	1,489	6,552	1,075	2,258	3,832	11,837	22,124	1,032	(3)	(3)	(3)
	Virginia.....	12	4	671	2,111	561	1,080	1,380	4,486	8,543	648	(3)	(3)	(3)
	Florida.....	60	8	531	1,639	441	761	1,233	3,049	6,040	754	(3)	(3)	(3)
	Kentucky.....	14	7	677	2,418	544	1,051	1,664	4,931	10,764	(4)	(3)	(3)	(3)
	Oklahoma.....	18	3	236	630	179	353	401	1,507	2,379	(4)	(3)	(3)	(3)
	Mountain.....	34	4	539	1,875	484	963	1,541	2,883	5,460	(4)	(3)	(3)	(3)
	Pacific.....	494	124	8,776	40,200	6,714	13,102	26,593	74,945	143,435	7,083	(3)	(3)	(3)
	Washington.....	29	3	254	993	201	347	690	1,927	4,323	(4)	(3)	(3)	(3)
	Oregon.....	12	1	122	361	101	172	286	839	1,427	(4)	(3)	(3)	(3)
	California.....	453	120	8,400	38,846	6,412	12,583	25,617	72,179	137,685	6,722	(3)	(3)	(3)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3011, Tires and Inner Tubes: Northeast—Maine, 2 (20-99); New Hampshire, 1 (20-99); Massachusetts, 4 (3,480); Connecticut, 2 (1,000-2,499); New York, 3 (1,752); New Jersey, 4 (20-99); North Central—Indiana, 2 (1,000-2,499); Michigan, 4 (6,478); Wisconsin, 2 (2,500-4,999); Minnesota, 1 (100-249); Iowa, 4 (2,500-4,999); Missouri, 5 (250-499); North Dakota, 1 (1-19); Kansas, 2 (1,000-2,499); South—Maryland, 2 (1,000-2,499); North Carolina, 1 (1-19); Georgia, 2 (100-249); Florida, 2 (20-99); Tennessee, 7 (2,783); Alabama, 4 (4,746); Mississippi, 3 (1,213); Arkansas, 4 (250-499); Oklahoma, 3 (1,000-2,499); Texas, 5 (1,000-2,499); West—Colorado, 2 (1,000-2,499); Washington, 1 (20-99); Oregon, 2 (20-99); California, 18 (8,478).

SIC 3021, Rubber Footwear: Northeast—New Hampshire, 1 (250-499); Massachusetts, 5 (6,153); Rhode Island, 3 (1,000-2,499); Connecticut, 2 (5,000 and over); New York, 3 (500-999); New Jersey, 1 (100-249); Pennsylvania, 4 (500-999); North Central, South and West—Ohio, 1 (20-99); Illinois, 1 (1,000-2,499); Wisconsin, 1 (500-999); Maryland, 2 (1,000-2,499); Tennessee, 2 (250-499); California, 1 (250-499).

SIC 3031, Reclaimed Rubber: Middle Atlantic—New York, 2 (250-499); New Jersey, 1 (20-99); Pennsylvania, 1 (20-99); North Central, South and West—Ohio, 6 (1,106); Indiana, 1 (20-99); Illinois, 1 (250-499); Tennessee, 1 (100-249); Texas, 1 (1-19); California, 2 (100-249).

SIC 3069, Fabricated Rubber Products, NEC: New England—Maine, 3 (100-249); New Hampshire, 4 (500-999); Vermont, 2 (500-999); Rhode Island, 15 (3,202); Connecticut, 42 (5,213); North Central—Indiana, 45 (10,862); Illinois, 70 (2,500-4,999); Michigan, 51 (3,333); Wisconsin, 23 (500,999); Minnesota, 20 (500-999); Iowa, 2 (20-99); Missouri, 21 (500-999); South Dakota, 1 (1-19); Nebraska, 3 (500-999); Kansas, 1 (20-99); South Atlantic—Delaware, 2 (1,000-2,499); West Virginia, 3 (250-499); South Carolina, 2 (100-249); Florida, 9 (100-249); East South Central—Kentucky, 3 (250-499); Alabama, 4 (250-499); Mississippi, 2 (1-19); West South Central—Arkansas, 3 (100-249); Louisiana, 1 (1-19); Oklahoma, 2 (1-19); Texas, 25 (1,539); West—Colorado, 4 (3,195); Utah, 5 (250-499); Washington, 7 (20-99); Oregon, 3 (100-249); California, 138 (6,290).

SIC 3079, Plastic Products, NEC: Northeast—Massachusetts, 226 (5000 and over); New Jersey, 272 (5000 and over); New York, 610 (5000 and over); West North Central—South Dakota, 2 (20-99); Nebraska, 15 (100-249); South Atlantic—Delaware, 8 (500-999); District of Columbia, 2 (20-99); West Virginia, 4 (1-19); North Carolina, 12 (250-499); South Carolina, 8 (500-999); Georgia, 13 (250-499); East South Central—Tennessee, 15 (500-999); Alabama, 7 (500-999); Mississippi, 2 (20-99); West South Central—Arkansas, 7 (250-499); Louisiana, 9 (100-249); Texas, 70 (1000-2499); Mountain—Idaho, 2 (1-19); Wyoming, 1 (1-19); Colorado, 18 (100-249); Arizona, 7 (250-499); Utah, 5 (1-19); Nevada, 1 (1-19).

<sup>2</sup>See footnote 8 of table 1.<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1 and text of this report).<sup>4</sup>Less than \$500 thousand.

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3011	Tires and inner tubes, total <sup>2</sup> .....	62	55	87,246	510,786	68,268	129,888	382,181	1,155,205	2,519,765	70,611	92,748	844,545	115,657
	Northeast.....	13	11	11,751	70,505	9,208	18,823	53,000	175,557	373,507	7,866	11,604	136,260	17,461
	Pennsylvania...	6	6	5,175	29,284	4,384	8,589	23,876	90,285	179,787	2,999	5,412	72,117	8,290
	North Central....	24	23	51,293	301,221	39,478	72,257	219,927	602,131	1,383,277	45,608	56,613	419,749	71,771
	Ohio.....	15	14	35,480	204,147	26,946	47,713	145,220	381,482	901,032	30,649	39,203	249,197	49,709
	South.....	17	15	14,390	81,995	12,082	24,227	66,934	251,304	509,367	12,143	14,373	190,679	15,846
	West.....	8	6	9,812	57,065	7,500	14,581	42,320	126,213	253,614	4,994	10,157	97,857	10,579

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3069	Fabricated rubber products, nec, total <sup>2</sup> .....	1,138	590	122,114	606,033	91,209	181,124	404,250	1,026,006	1,950,297	45,363	132,503	930,086	112,385
	Northeast.....	409	210	47,549	232,475	34,870	69,156	151,043	395,951	737,362	15,132	55,046	382,881	48,494
	Pennsylvania....	63	29	5,771	28,495	4,207	8,123	18,253	46,482	82,705	1,526	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	North Central....	412	225	52,192	270,571	38,959	76,627	181,141	412,911	795,522	17,331	57,223	405,757	49,783
	Ohio.....	163	106	30,030	155,673	22,028	42,160	102,609	228,899	455,589	9,215	30,432	214,315	32,770
	South.....	143	76	11,696	47,195	9,573	19,458	35,276	92,860	201,591	5,737	8,878	57,808	(D)
	Maryland.....	12	10	2,099	7,915	1,777	3,693	5,869	14,148	25,250	( <sup>4</sup> )	1,893	9,064	563
	Virginia.....	11	6	1,834	6,590	1,393	2,911	4,811	11,108	22,022	1,849	1,091	7,388	667
	West.....	174	79	10,677	55,792	7,807	15,883	36,790	124,284	215,822	7,163	11,355	83,637	(D)
3079	Plastics products, nec, total <sup>2</sup> .....	3,208	1,136	113,066	492,436	89,905	178,812	337,510	894,440	1,822,087	75,229	91,967	589,254	58,400
	New England.....	374	179	19,339	76,328	15,845	31,624	53,972	143,171	277,185	10,066	16,408	97,577	13,685
	Maine.....	10	7	1,017	3,493	876	1,726	2,712	7,723	13,059	807	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New Hampshire...	7	4	343	1,066	296	596	720	1,690	3,156	( <sup>4</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Vermont.....	8	5	331	1,217	288	553	918	1,918	3,564	( <sup>4</sup> )	266	1,598	529
	Massachusetts...	225	103	11,083	43,085	9,038	17,949	29,649	72,119	148,575	5,277	10,481	61,224	7,839
	Rhode Island....	43	21	2,645	9,322	2,183	4,398	7,203	28,908	51,601	1,060	1,635	9,207	592
	Connecticut.....	81	39	3,920	18,145	3,164	6,402	12,770	30,813	57,230	2,753	3,923	25,194	4,606
	Middle Atlantic...	1,048	359	35,081	151,173	28,199	55,707	105,631	270,512	568,936	23,771	29,805	191,203	20,155
	New York.....	609	196	16,625	67,782	13,654	26,823	48,069	121,808	255,759	10,477	13,669	86,541	7,904
	New Jersey.....	271	99	10,136	45,953	8,094	16,378	31,930	84,975	185,146	9,295	7,752	53,707	6,324
	Pennsylvania.....	168	64	8,320	37,438	6,451	12,506	25,632	63,729	128,031	3,999	8,384	50,954	5,927
	East North Central	807	345	36,048	169,358	28,269	56,752	114,476	305,094	624,602	23,471	29,862	203,450	18,201
	Ohio.....	213	98	10,336	48,291	8,120	16,337	32,637	92,564	188,997	7,552	8,890	65,828	6,724
	Indiana.....	64	32	4,993	24,650	3,726	7,405	16,085	38,853	92,882	3,692	4,431	28,155	2,484
	Illinois.....	291	133	13,603	64,329	10,799	21,932	44,071	114,277	221,007	8,807	11,674	77,043	6,695
	Michigan.....	162	49	4,302	20,228	3,368	6,650	13,514	35,588	73,332	1,852	3,161	23,745	1,398
	Wisconsin.....	77	33	2,814	11,860	2,256	4,428	8,169	23,812	48,384	1,568	1,705	8,677	900
	West North Central	170	50	4,205	17,171	3,441	6,479	12,297	29,685	58,271	2,748	2,397	13,503	1,159
	Minnesota.....	53	14	1,122	4,554	915	1,738	3,292	7,584	13,995	607	643	4,040	580
	Iowa.....	15	4	890	3,702	690	1,188	2,423	4,358	9,828	645	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Missouri.....	69	21	1,687	6,999	1,432	2,789	5,218	14,213	27,600	1,121	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Kansas.....	16	5	225	893	178	322	688	1,251	2,655	( <sup>4</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South Atlantic....	145	39	5,185	20,346	3,853	7,679	12,517	38,528	74,387	3,762	(NA)	(NA)	(NA)
	Maryland.....	26	9	1,489	6,552	1,075	2,258	3,832	11,837	22,124	1,032	1,450	8,552	779
	Virginia.....	12	4	671	2,111	561	1,080	1,380	4,486	8,543	648	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Florida.....	60	8	531	1,639	441	761	1,233	3,049	6,040	754	354	1,691	26
	East South Central	36	17	1,877	8,143	1,516	3,159	5,368	13,192	34,825	973	(NA)	(NA)	(NA)
	Kentucky.....	14	7	677	2,418	544	1,051	1,664	4,931	10,764	( <sup>4</sup> )	448	2,993	141
	West South Central	103	19	2,035	7,918	1,599	3,378	5,177	17,485	36,144	2,874	(NA)	(NA)	(NA)
	Oklahoma.....	18	3	236	630	179	353	401	1,507	2,379	( <sup>4</sup> )	143	664	(D)
	Texas.....	69	14	1,305	5,607	981	2,074	3,344	11,904	25,556	2,491	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Mountain.....	34	4	539	1,875	484	963	1,541	2,883	5,460	( <sup>4</sup> )	(NA)	(NA)	(NA)
	Pacific.....	491	124	8,757	40,124	6,699	13,071	26,531	73,890	142,277	7,083	(NA)	(NA)	(NA)
	Washington.....	29	3	254	993	201	347	690	1,927	4,323	( <sup>4</sup> )	138	922	46
	Oregon.....	12	1	122	361	101	172	286	839	1,427	( <sup>4</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	450	120	8,381	38,770	6,397	12,552	25,555	71,124	136,527	6,722	6,235	42,292	2,721

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available. Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3011, Tires and Inner Tubes: Northeast—Maine, 1 (1-19); Massachusetts, 2 (2,500-4,999); Connecticut, 1 (1,000-2,499); New York, 2 (1,000-2,499); New Jersey, 1 (1-19); North Central—Indiana, 1 (1,000-2,499); Michigan, 2 (5,000 and over); Wisconsin, 1 (2,500-4,999); Minnesota, 1 (100-249); Iowa, 2 (2,500-4,999); Missouri, 1 (100-249); Kansas, 1 (1,000-2,499); South—Maryland, 2 (1,000-2,499); Florida, 1 (20-99); Tennessee, 5 (2,500-4,999); Alabama, 3 (2,500-4,999); Mississippi, 1 (1,000-2,499); Arkansas, 1 (100-249); Oklahoma, 1 (1,000-2,499); Texas, 2 (1,000-2,499); West—Colorado, 1 (1,000-2,499); California, 7 (8,021).

SIC 3069, Fabricated Rubber Products, NEC: New England—Maine, 4 (100-249); New Hampshire, 5 (500-999); Vermont, 2 (500-999); Rhode Island, 15 (3,202); Connecticut, 43 (5,000 and over); North Central—Indiana, 46 (5,000 and over); Illinois, 70 (2,500-4,999); Michigan, 53 (2,500-4,999); Wisconsin, 24 (500-999); Minnesota, 20 (500-999); Iowa, 4 (20-99); Missouri, 25 (500-999); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 3 (500-999); Kansas, 2 (20-99); South Atlantic—Delaware, 2 (1,000-2,499); West Virginia, 3 (250-499); South Carolina, 2 (100-249); Georgia, 23 (500-999); Florida, 10 (100-249); East South Central—Kentucky, 3 (250-499); Alabama, 5 (250-499); Mississippi, 3 (1-19); West South Central—Arkansas, 6 (100-249); Louisiana, 1 (1-19); Oklahoma, 4 (100-249); Texas, 28 (1,799); West—Colorado, 5 (2,500-4,999); Utah, 5 (250-499); Washington, 8 (100-249); Oregon, 5 (100-249); California, 149 (6,747).

SIC 3079, Plastics Products, NEC: West North Central—South Dakota, 2 (20-99); Nebraska, 15 (100-249); South Atlantic—Delaware, 8 (500-999); District of Columbia, 2 (20-99); West Virginia, 4 (1-19); North Carolina, 12 (250-499); South Carolina, 8 (500-999); Georgia, 13 (250-499); East South Central—Tennessee, 13 (250-499); Alabama, 7 (500-999); Mississippi, 2 (20-99); West South Central—Arkansas, 7 (250-499); Louisiana, 9 (100-249); Mountain—Idaho, 2 (1-19); Wyoming, 1 (1-19); Colorado, 18 (100-249); Arizona, 7 (250-499); Utah, 5 (1-19); Nevada, 1 (1-19).

<sup>2</sup>See footnote 8 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Less than \$500 thousand.



Table 3.—Detailed Statistics for the United States: 1958

Item	Tires and inner tubes (SIC 3011)	Rubber footwear (SIC 3021)	Reclaimed rubber (SIC 3031)	Fabricated rubber products, nec (SIC 3069)	Plastics products, nec (SIC 3079)
Primary product specialization ratio <sup>1</sup> .....	91	(D)	94	86	91
Coverage ratio <sup>2</sup> .....	99	(D)	72	86	85
Number of establishments, total.....	123	27	16	1,074	3,222
With 1-19 employees.....	37	1	2	516	2,079
With 20-99 employees.....	32	5	7	330	894
With 100 employees or more.....	54	21	7	228	249
Proprietors and working partners.....Number..	28	1	2	307	1,190
All employees:					
Number (average for the year).....	89,395	20,359	2,215	119,565	116,308
Payroll.....\$1,000..	521,855	85,611	11,658	592,964	511,207
Production workers:					
Number (average for the year).....	69,959	17,602	1,793	89,158	91,988
March.....	70,562	17,714	1,768	87,249	89,455
May.....	66,538	17,288	1,728	83,926	88,588
August.....	70,006	17,403	1,804	88,767	92,975
November.....	72,766	18,015	1,864	97,059	97,884
Man-hours.....1,000..	133,268	34,131	3,330	176,994	183,253
January-March.....do....	32,555	8,806	820	43,643	43,810
April-June.....do....	31,905	8,685	805	41,136	44,144
July-September.....do....	32,343	7,685	793	42,469	45,014
October-December.....do....	36,433	8,954	912	49,416	49,278
Wages.....\$1,000..	388,702	68,573	9,076	396,129	348,892
Cost of materials, etc., total.....do....	1,386,694	81,715	18,615	881,321	948,283
Materials, parts, containers, and supplies consumed.....do....	1,158,324	68,997	14,923	750,158	861,827
Cost of resales.....do....	197,829	9,408	(D)	92,467	38,475
Fuels consumed.....do....	13,505	1,120	517	14,689	9,500
Electricity purchased.....do....	16,608	1,691	1,534	19,097	19,590
Contract work.....do....	428	499	19	4,910	18,891
Value of shipments (including resales), total.....do....	2,577,788	229,439	39,260	1,885,274	1,867,877
Value of resales.....do....	251,633	10,438	(D)	110,544	45,420
Value added by manufacture, adjusted.....do....	1,179,957	149,608	20,843	997,254	928,950
Manufacturers' inventories:					
Beginning of year, total.....do....	400,465	47,899	5,713	277,641	225,124
Finished products.....do....	233,088	34,183	2,775	126,643	86,552
Work-in-process.....do....	50,604	4,507	588	52,533	43,102
Materials, supplies, fuel, etc.....do....	116,773	9,209	2,350	98,465	95,470
End of year, total.....do....	371,807	49,082	5,770	265,054	235,839
Finished products.....do....	227,329	36,235	3,002	120,169	93,660
Work-in-process.....do....	45,226	4,339	559	52,308	45,350
Materials, supplies, fuel, etc.....do....	99,252	8,508	2,209	92,577	96,829
Expenditures for plant and equipment, total.....do....	73,351	3,193	964	45,782	79,816
New, total.....do....	72,269	3,109	964	43,603	76,951
New structures and additions to plant.....do....	12,596	461	100	9,016	21,091
New machinery and equipment.....do....	59,673	2,648	864	34,587	55,860
Used plant and equipment.....do....	1,082	84	...	2,179	2,865

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3011	Tires and inner tubes:											
	Number of establishments.....	123	18	8	11	23	9	11	8	2	24	9
	All employees:											
	Number.....	89,395	255	(D)	(D)	736	628	1,811	4,409	(D)	37,408	44,148
	Payroll.....\$1,000..	521,855	1,116	(D)	(D)	3,508	2,983	9,564	23,475	(D)	220,727	260,482
	Value added, adjusted..do....	1,179,957	2,542	(D)	(D)	9,211	6,888	20,251	46,117	(D)	600,002	494,946
	Value of shipments.....do....	2,577,788	6,269	(D)	(D)	19,763	21,668	42,474	100,112	(D)	1,285,493	1,102,009
	Capital expend., new...do....	72,269	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	970	( <sup>1</sup> )	1,329	1,874	(D)	32,119	35,450
3021	Rubber footwear:											
	Number of establishments.....	27	...	1	...	2	3	4	4	8	3	2
	All employees:											
	Number.....	20,359	...	970	...	(D)	(D)	(D)	7,800	(D)	11,589	(D)
	Payroll.....\$1,000..	85,611	...	3,821	...	(D)	(D)	(D)	27,782	(D)	54,008	(D)
	Value added, adjusted..do....	149,608	...	6,873	...	(D)	(D)	(D)	46,809	(D)	95,926	(D)
	Value of shipments.....do....	229,439	...	10,969	...	(D)	(D)	(D)	78,283	(D)	140,187	(D)
	Capital expend., new...do....	3,109	...	( <sup>1</sup> )	...	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,087	(D)	1,826	( <sup>1</sup> )
3031	Reclaimed rubber:											
	Number of establishments.....	16	1	...	1	4	3	3	4	...	...	...
	All employees:											
	Number.....	2,215	184	...	(D)	(D)	618	(D)	1,413	...	...	...
	Payroll.....\$1,000..	11,658	884	...	(D)	(D)	3,211	(D)	7,563	...	...	...
	Value added, adjusted..do....	20,843	1,084	...	(D)	(D)	6,862	(D)	12,897	...	...	...
	Value of shipments.....do....	39,260	2,406	...	(D)	(D)	11,719	(D)	25,135	...	...	...
	Capital expend., new...do....	964	( <sup>1</sup> )	...	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	733	...	...	...
3069	Fabricated rubber products, nec:											
	Number of establishments.....	1,074	226	135	155	198	132	127	52	31	14	4
	All employees:											
	Number.....	119,565	442	916	2,123	6,630	9,135	20,458	18,714	22,072	39,075	(D)
	Payroll.....\$1,000..	592,964	1,563	3,994	9,014	30,840	41,161	97,859	89,352	111,377	207,804	(D)
	Value added, adjusted..do....	997,254	3,138	8,873	16,603	56,847	79,207	181,207	146,409	184,444	320,526	(D)
	Value of shipments.....do....	1,885,274	7,988	20,016	37,252	127,670	150,829	338,468	259,549	336,736	606,766	(D)
	Capital expend., new...do....	43,603	263	939	904	2,804	3,781	5,793	9,284	6,709	13,126	(D)
3079	Plastics products, nec:											
	Number of establishments.....	3,222	1,045	501	533	603	291	170	57	19	3	...
	All employees:											
	Number.....	116,308	2,180	3,382	7,524	19,039	20,626	25,873	19,808	12,886	4,990	...
	Payroll.....\$1,000..	511,207	7,733	13,126	29,604	78,776	84,160	111,065	93,019	66,445	27,279	...
	Value added, adjusted..do....	928,950	18,009	25,933	57,934	148,741	157,059	190,983	180,253	100,448	49,590	...
	Value of shipments.....do....	1,867,877	40,894	53,821	114,599	296,218	326,204	404,107	341,359	208,496	82,179	...
	Capital expend., new...do....	76,951	8,530	3,207	5,809	13,542	10,622	12,766	9,504	8,531	4,440	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.



**Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954**

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3011	Tires and inner tubes.....1958..	2,577,788	2,122,024	197,273	258,491	91	2,145,326	2,122,024	23,302	99
3021	Rubber footwear.....1958..	229,439	(D)	(D)	10,929	(D)	213,684	(D)	(D)	(D)
	1954..	171,471	138,961	26,955	5,575	84	163,730	138,961	24,769	85
3031	Reclaimed rubber.....1958..	39,260	34,137	2,181	2,942	94	47,646	34,137	13,509	72
	1954..	63,599	33,172	4,755	25,672	87	44,542	33,172	11,370	74
3069	Fabricated rubber products, nec.....1958..	1,885,274	1,508,525	253,280	123,469	86	1,759,077	1,508,525	250,552	86
3079	Plastics products, nec.....1958..	1,867,877	1,631,533	159,708	76,636	91	1,914,467	1,631,533	282,934	85

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.

<sup>2</sup> The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup> The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

**Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958**

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Class of products and miscellaneous receipts	Tires and inner tubes (SIC 3011)	Rubber footwear (SIC 3021)	Reclaimed rubber (SIC 3031)	Fabricated rubber products, nec (SIC 3069)	Plastics products, nec (SIC 3079)	Plastics materials (SIC 2821)	Other industries	All industries
	Total shipments and receipts of the industry.....	2,577,788	229,439	39,260	1,885,274	1,867,877	xxx	xxx	xxx
	Rubber and miscellaneous plastics products....	2,262,281	214,069	35,257	1,623,755	1,654,220	72,788	xxx	xxx
30111	Passenger car and motorcycle pneumatic tires (casings).....	(D)	...	...	(D)	...	...	...	1,076,828
30112	Trucks and bus (and off-the-road) pneumatic tires.....	(D)	...	...	(D)	...	...	(D)	601,952
30113	Other pneumatic tires and solid tires.....	178,940	( <sup>1</sup> )	...	5,953	...	...	(D)	185,455
30114	All inner tubes.....	100,164	...	...	( <sup>1</sup> )	...	...	...	100,185
30115	Tread rubber, tire sundries, and repair materials.....	166,239	...	...	13,104	...	(D)	(D)	180,906
30210	Rubber footwear.....	...	(D)	...	(D)	...	...	( <sup>1</sup> )	213,684
30310	Reclaimed rubber.....	(D)	...	34,137	3,579	...	...	( <sup>2</sup> )	47,646
30691	Rubber belts and belting.....	(D)	...	...	(D)	...	...	(D)	137,930
30692	Rubber hose and tubing.....	8,343	...	...	167,123	...	...	(D)	180,655
30693	Sponge and foam rubber goods.....	30,191	(D)	...	153,163	7,737	...	(D)	200,751
30694	Rubber floor and wall covering.....	9,546	...	...	82,515	6,805	( <sup>1</sup> )	(D)	99,376
30695	Mechanical rubber goods, nec.....	46,669	4,831	...	458,417	4,410	...	<sup>3</sup> 20,344	534,671
30696	Rubber heels and soles.....	( <sup>1</sup> )	945	...	125,749	(D)	(D)	( <sup>4</sup> )	134,856
30697	Druggist and medical sundries.....	( <sup>1</sup> )	...	...	(D)	(D)	...	(D)	56,953
30698	Other rubber goods, nec.....	25,317	(D)	1,120	322,641	1,172	(D)	<sup>5</sup> 39,982	392,308
30690	Fabricated rubber products, nsk.....	221	...	...	20,683	...	...	673	21,577
30791	Plastic dinnerware and house wares, except sheet goods products.....	...	...	...	(D)	119,665	...	( <sup>6</sup> )	129,665
30792	Plastic pipe, hose, tubing, and fittings....	...	...	...	16,801	51,225	(D)	(D)	71,574
30793	Molded plastic products, nec.....	(D)	(D)	...	15,007	558,832	2,080	<sup>7</sup> 48,939	625,776
30794	Unsupported vinyl and polyethylene film and sheeting.....	...	...	...	2,673	198,753	48,798	<sup>8</sup> 17,104	267,328
30795	Unsupported plastic floor and wall coverings	(D)	...	...	4,056	50,352	...	(D)	61,526

See footnotes at end of table.



Table 5B.-Industry-Product Analysis--Shipments by Product Class and Industry,  
for the United States: 1958--Continued

Prod. class code	Class of products and miscellaneous receipts	Tires and inner tubes (SIC 3011)	Rubber footwear (SIC 3021)	Reclaimed rubber (SIC 3031)	Fabricated rubber products, nec (SIC 3069)	Plastics products, nec (SIC 3079)	Plastics materials (SIC 2821)	Other industries	All industries
	Rubber and miscellaneous plastics products--								
	Continued								
30796	Expanded or foamed plastics.....	(D)	...	...	8,164	32,116	8,488	(D)	54,040
30797	High pressure laminated sheets.....	...	...	...	...	88,485	(D)	(D)	90,358
30798	Laminated sheets, rods, and tubes, other than high pressure.....	...	...	...	...	69,355	(D)	(D)	72,566
30799	Fabricated plastics products, nec.....	211	5,596	...	19,412	384,962	7,206	844,847	462,234
30790	Miscellaneous plastics products, nsk.....	...	...	...	(1)	77,788	...	(D)	79,400
	Other products.....	57,016	4,441	1,061	138,050	137,021	xxx	xxx	xxx
22415	Covered rubber thread.....	...	...	...	2,408	...	xxx	xxx	xxx
2295-	Coated fabric, not rubberized.....	...	(10)	...	19,910	11,820	xxx	xxx	xxx
23850	Raincoats and other waterproof outer garments.....	...	...	...	2,017	1,048	xxx	xxx	xxx
25190	Household furniture, nec.....	...	...	...	...	4,805	xxx	xxx	xxx
26414	Laminated or coated wrappers, except waxed (rolls and sheets).....	...	...	...	6,985	139	xxx	xxx	xxx
26495	Other converted paper and board products....	...	...	...	...	2,194	xxx	xxx	xxx
26552	Fiber cans, tubes, and other fiber products....	...	...	...	...	8,404	xxx	xxx	xxx
28183	Synthetic organic chemicals, nec (except bulk surface active agents).....	(10)	...	...	2,300	(10)	xxx	xxx	xxx
2821-	Plastics materials.....	(10)	...	(10)	3,732	31,097	xxx	xxx	xxx
28430	Surface active and finishing agents.....	(10)	...	(10)	3,709	...	xxx	xxx	xxx
28911	Glues, adhesives, and sizes.....	(10)	...	(10)	2,925	...	xxx	xxx	xxx
28993	Essential oils, fireworks, and pyrotechnics, and chemicals and chemical preparations, nec.....	(10)	...	(10)	2,449	668	xxx	xxx	xxx
31210	Industrial leather belting and packing.....	...	...	...	2,993	...	xxx	xxx	xxx
31310	Boot and shoe cut stock and findings.....	...	(10)	...	578	2,089	xxx	xxx	xxx
3292-	Asbestos products.....	...	...	...	5,275	(10)	xxx	xxx	xxx
32932	Gaskets, all types.....	1,764	...	...	19,085	250	xxx	xxx	xxx
32933	Packing (except leather, rubber, and metal) and asbestos insulations.....	...	...	...	2,927	...	xxx	xxx	xxx
3299-	Nonmetallic minerals, nec.....	...	...	...	...	3,558	xxx	xxx	xxx
35442	Industrial molds.....	...	...	...	1,023	12,084	xxx	xxx	xxx
35552	Other printing trades machinery, including parts and attachments.....	(10)	...	...	6,258	(10)	xxx	xxx	xxx
37175	Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....	(10)	...	...	13,932	...	xxx	xxx	xxx
39410	Games and toys, except dolls and children's vehicles.....	(10)	...	...	1,337	8,410	xxx	xxx	xxx
39492	Other sporting and athletic goods.....	(10)	...	...	13,412	1,641	xxx	xxx	xxx
39813	Other brushes.....	...	...	...	...	2,737	xxx	xxx	xxx
3993-	Signs and advertising displays.....	...	...	...	...	2,045	xxx	xxx	xxx
	Other secondary products.....	1155,252	4,441	1,061	27,080	1246,121	xxx	xxx	xxx
	Miscellaneous receipts.....	258,491	10,929	2,942	123,469	76,636	xxx	xxx	xxx
	Resales.....	251,633	10,438	...	110,544	45,420	xxx	xxx	xxx
	Contract work.....	6,858	491	2,942	5,690	25,559	xxx	xxx	xxx
	Other miscellaneous receipts.....	...	...	...	7,235	5,657	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Includes \$2 million or more shipped by establishments classified in Industry 2818, Organic Chemicals, NEC, but exact figures are withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes \$4,709 thousand shipped by establishments classified in Industry 3121, Industrial Leather Belting; \$3,128 thousand shipped by Industry 3292, Asbestos Products; \$2,687 thousand shipped by Industry 3293, Gaskets and Insulations; and \$2,763 thousand shipped by Industry 3842, Surgical Appliances and Supplies.

<sup>4</sup>Includes \$3,963 thousand shipped by establishments classified in Industry 3131, Footwear Cut Stock.

<sup>5</sup>Includes \$5,108 thousand shipped by establishments classified in Industry 2295, Coated Fabric, Not Rubberized; \$3,289 thousand shipped by Industry 2385, Waterproof Outergarments; and \$2,093 thousand shipped by Industry 3633, Household Laundry Equipment. In addition, the following industries had shipments which totaled \$2 million or more, but are withheld to avoid disclosing individual company figures: 2342, Corsets and Allied Garments; 2641, Paper Coating and Glazing; and 2818, Organic Chemicals, NEC.

<sup>6</sup>Includes \$2,219 thousand shipped by establishments classified in Industry 3941, Games and Toys, NEC.

<sup>7</sup>Includes \$5,392 thousand shipped by establishments classified in Industry 3357, Nonferrous Wire Drawing, etc.; \$4,004 thousand shipped by Industry 3461, Metal Stampings; \$3,049 thousand shipped by Industry 3941, Games and Toys, NEC; and \$6,268 thousand shipped by Industry 3981, Brooms and Brushes.

<sup>8</sup>Includes \$11,660 thousand shipped by establishments classified in Industry 2295, Coated Fabrics, Not Rubberized.

<sup>9</sup>Includes \$11,511 thousand shipped by establishments classified in Industry 3461, Metal Stampings; \$2,136 thousand shipped by Industry 3496, Collapsible Tubes. In addition, \$2 million or more was shipped by establishments classified in Industry 3651, Radios and TV Receiving Sets, but exact figures are withheld to avoid disclosing individual company figures.

<sup>10</sup>Included in other secondary products.

<sup>11</sup>Includes the following industries and product class which totaled \$2 million or more but exact figures are withheld to avoid disclosing individual company figures: Industry 2822, Synthetic Rubber; Industry 2821, Plastics Materials; and Product class 37175, Parts and accessories for passenger cars, trucks, and buses, shipped to motor vehicle manufacturers.

<sup>12</sup>Includes \$2 million or more for Industry 2824, Organic Fibers, Noncellulosic, but exact figures are withheld to avoid disclosing individual company figures.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3011---	Tires and inner tubes, total.....	.....	xxx	xxx	2,145,326	xxx	xxx	1,729,912
3011111	Passenger car and motorcycle pneumatic tires (casings).....	1,000 tires...	84,675	84,188	1,076,828	77,291	76,779	854,244
3011211	Truck and bus (and off-the-road) pneumatic tires..	...do.....	12,999	13,084	601,952	12,476	12,552	520,169
30113--	Other pneumatic tires and solid tires.....	.....	xxx	xxx	185,455	xxx	xxx	127,143
3011311	Airplane.....	1,000 tires...	477	463	43,715	383	369	23,557
3011313	Tractor and implement (farm, garden, and industrial).....	...do.....	3,636	3,474	94,969	3,050	2,990	68,431
3011315	Industrial.....	...do.....	1,782	1,838	12,994	1,140	1,147	5,878
3011317	Bicycle casings and single tube tires.....	...do.....	8,243	8,152	9,352	7,206	7,311	7,790
	Solid tires:							
3011331	Pressed on industrial and highway.....	...do.....	331	308	6,649	306	314	5,255
3011333	Cured on industrial (2.00" or larger which are cured on a wheel).....	...do.....	(NA)	(NA)	1,605	(NA)	(NA)	1,801
3011335	Bogie, idler and support rollers.....	1,000 units...	270	222	1,789	288	286	4,986
	Other industrial and semipneumatic:							
3011341	2.00" or larger, except hand lawn mowers, baby carriage, tricycle, juvenile, etc....	1,000 tires...	7,082	7,027	4,021	32,618	31,326	9,445
3011351	Less than 2.00", including hand lawn mowers, baby carriage, tricycle, juvenile, etc....	...do.....	37,709	37,301	10,361			
30114--	All inner tubes.....	.....	xxx	xxx	100,185	xxx	xxx	120,361
3011421	Passenger car and motorcycle.....	1,000 tubes...	33,737	33,027	48,575	50,775	52,154	74,205
3011423	Truck and bus (including off-the-road).....	...do.....	8,572	8,813	32,780	8,969	9,208	31,328
3011424	Airplane.....	...do.....	278	276	2,705	263	257	2,125
3011425	Tractor and implement (farm, garden, and industrial).....	...do.....	2,721	2,694	8,916	2,413	2,589	7,279
3011426	Industrial.....	...do.....	1,991	1,888	2,077	1,312	1,325	1,295
3011427	Bicycle.....	...do.....	8,746	8,451	5,132	7,210	7,505	4,129
30115--	Tread rubber, tire sundries, and repair materials.	.....	xxx	xxx	180,906	xxx	xxx	107,995
3011511	Tread rubber (camelback).....	1,000 lbs...	489,993	487,211	138,442	315,378	310,951	83,514
3011531	Tire flaps.....	1,000 units...	11,152	10,866	8,116	xxx	xxx	(1)
3011551	Other tire sundries and repair materials.....	1,000 lbs...	xxx	xxx	29,028	xxx	xxx	24,481
3011561	Tiring.....	...do.....	10,070	10,079	1,119	xxx	xxx	(2)
3011500	Tread rubber, tire sundries, and repair materials, nsk.....	.....	xxx	xxx	4,201	xxx	xxx	...
3021---	Rubber footwear, total.....	.....	xxx	xxx	213,684	xxx	xxx	163,730
	Canvas:							
3021011	Bals.....	1,000 pairs...	20,392	19,855	42,821	15,406	14,969	31,148
3021013	Oxfords.....	...do.....	40,717	39,999	72,114	25,451	25,758	48,352
3021015	Specialty shoes.....	...do.....	10,300	10,147	20,339	10,250	10,217	19,720
	Waterproof:							
3021021	Boots.....	...do.....	3,014	3,009	14,347	2,060	2,152	11,219
3021031	Lumberman and pacs.....	...do.....	1,691	1,672	10,277	1,670	1,702	9,411
	Arctics and gaiters:							
3021041	Buckle and automatic, except style.....	...do.....	6,500	6,914	24,004	4,821	5,370	16,003
3021045	Style, rubber and cloth.....	...do.....	6,011	6,503	15,124	6,919	7,253	16,540
3021051	Light and heavy rubbers.....	...do.....	8,221	8,371	12,998	7,664	8,340	11,337
3021098	Other rubber footwear.....	.....	(NA)	(NA)	1,660	...	...	...
3031---	Reclaimed rubber, total.....	.....	xxx	xxx	47,646	xxx	xxx	44,542
3031011	Reclaimed rubber <sup>3</sup> .....	1,000 lbs...	582,568	501,963	47,123	569,058	501,013	43,734
3031051	Crumb or ground rubber <sup>4</sup> .....	...do.....	14,197	10,030	523	13,555	7,935	808
3069---	Fabricated rubber products, nec, total.....	.....	xxx	xxx	1,759,077	xxx	xxx	1,610,268
30691--	Rubber belts and belting.....	.....	xxx	xxx	137,930	xxx	xxx	126,932
3069111	Conveyor and elevator.....	1,000 lbs...	52,373	52,199	52,403	48,256	48,039	40,631
	Transmission:							
3069113	Flat.....	...do.....	8,834	9,224	11,228	10,631	10,516	14,593
	V-belt:							
	Motor vehicles:							
3069121	Pounds.....	...do.....	13,189	12,408	21,902	13,644	13,378	18,292
3069125	Units.....	1,000 units...	(NA)	...	...	29,341	...	...

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued.

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3069---	Fabricated rubber products, nec--Continued							
30691--	Rubber belts and belting--Continued							
	Transmission--Continued							
	V-belt--Continued							
3069131	Industrial, except fractional.....	1,000 lbs.....	11,103	11,162	22,651	36,597	35,803	48,131
3069141	Agricultural, except fractional.....	..do.....	3,217	2,932	4,794			
3069151	Fractional horsepower.....	..do.....	8,420	8,080	16,125			
3069198	Other.....	..do.....	(NA)	(NA)	8,450	5,591	5,687	5,285
3069100	Rubber belts and belting, nsk.....	.....	xxx	xxx	377	...	...	...
30692--	Rubber hose and tubing.....	.....	xxx	xxx	180,655	xxx	xxx	148,509
	Hose:							
	Railroad specification:							
3069211	Airbrake and air signal.....	1,000 lbs.....	1,785	1,991	1,712	1,546	1,528	1,292
3069219	Other.....	..do.....	607	653	596	*2,577	*2,573	*946
	Molded:							
3069221	Garden.....	..do.....	20,890	19,786	7,581	21,292	21,918	9,212
3069227	Radiator.....	..do.....	45,833	44,480	23,019	*75,614	*76,487	*42,590
3069229	Other.....	..do.....	(NA)	(NA)	33,686			
3069225	Horizontal wire braided.....	..do.....	17,585	18,052	23,420	14,447	14,184	14,562
	Wrapped:							
3069231	Handbuilt.....	..do.....	13,781	13,662	15,043	16,975	16,954	15,908
3069239	Other.....	..do.....	(NA)	(NA)	17,142	27,324	27,505	23,241
	Cotton rubber-lined:							
3069241	Fire specification.....	..do.....	6,218	6,393	6,751	4,004	4,074	3,880
3069245	Fire--commercial.....	..do.....	(NA)	(NA)	5,305	4,417	4,483	4,866
3069249	Other.....	..do.....	(NA)	(NA)	3,131	5,355	5,141	5,399
3069261	Gasoline.....	..do.....	12,027	12,319	11,687	7,120	7,150	6,848
3069271	Other rubber hose.....	..do.....	(NA)	(NA)	23,063	(NA)	(NA)	10,138
3069281	Tubing, except medical and surgical and reinforced.....	1,000 lbs.....	12,519	12,452	6,987	19,520	19,554	9,627
3069200	Rubber hose and tubing, nsk.....	..do.....	xxx	xxx	1,532	xxx	xxx	...
30693--	Sponge and foam rubber goods.....	.....	xxx	xxx	200,751	xxx	xxx	178,924
	Latex foam:							
3069311	Automobile seating.....	1,000 lbs.....	36,610	37,528	29,618	51,049	51,747	40,248
	Upholstery:							
3069321	Fully molded cushions.....	..do.....	54,703	58,274	47,103	34,810	35,024	30,523
3069323	Slab stock.....	..do.....	19,789	20,316	12,309	18,452	18,488	15,804
	Mattress cores:							
3069331	Pounds.....	..do.....	23,938	...	...	(NA)	...	...
3069335	Units.....	1,000 units...	737	768	19,839	857	835	19,009
	Pillows:							
3069341	Pounds.....	1,000 lbs.....	12,310	...	...	(NA)	...	...
3069345	Units.....	1,000 units...	7,987	7,762	15,278	xxx	7,882	19,356
3069361	Other latex foam products, including hospital padding and topper pads.....	1,000 lbs.....	35,476	36,895	30,168	*33,043	*33,425	23,754
3069371	Chemically blown sponge.....	..do.....	119,009	120,192	39,436	66,795	66,383	30,230
3069300	Sponge and foam rubber products, nsk.....	.....	xxx	xxx	7,000	xxx	xxx	...
30694--	Rubber floor and wall covering.....	.....	xxx	xxx	99,376	xxx	xxx	92,444
	Mats, mattings, and stair treads:							
3069421	Rolls.....	1,000 sq. yds.	(NA)	(NA)	7,918	10,589	10,668	16,291
	Individual mats:							
3069423	Automotive.....	..do.....	(NA)	(NA)	41,942	38,619	38,773	34,641
3069425	All other (including stair treads).....	..do.....	(NA)	(NA)	13,537	8,007	8,013	11,870
	Other flooring:							
3069427	Sheet goods.....	..do.....	(NA)	(NA)	5,671	1,499	1,511	2,091
3069428	Tile.....	..do.....	(NA)	(NA)	20,001	11,935	11,670	22,319
3069429	Wall coverings (including cove base, wainscoting, etc.).....	..do.....	8,038	7,837	10,307	xxx	xxx	5,232
30695--	Mechanical rubber goods, nec.....	.....	xxx	xxx	534,671	xxx	xxx	556,276
	Hard rubber mechanical goods:							
	Battery jars, boxes, and parts:							
3069511	Jars and boxes.....	1,000 units...	19,775	20,803	21,940	xxx	xxx	23,653
3069515	Parts.....	.....	xxx	xxx	21,485			
3069518	Other.....	.....	xxx	xxx	11,755	xxx	xxx	21,217

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3069--- 30695--	Fabricated rubber products, nec--Continued Mechanical rubber goods, nec--Continued							
3069531	Other rubber mechanical goods: Molded (including wringer rolls, but excluding sponge and hard rubber products).....	1,000 lbs.....	(NA)	(NA)	174,416	199,362	197,513	171,217
	Extrusion and lathe cut (except tubing):							
3069533	Extrusions only.....	..do.....	(NA)	(NA)	35,785	96,366	93,012	48,946
3069535	Lathe cut.....	..do.....	(NA)	(NA)	11,904			
3069537	Jar rings.....	Gross.....	(NA)	(NA)	2,098	(NA)	(NA)	2,738
3069541	O-rings.....	1,000 lbs.....	(NA)	(NA)	24,089	5,433	5,392	11,852
3069545	Packing (for sealing moving parts).....	..do.....	(NA)	(NA)	38,586	32,073	31,886	28,477
3069551	Pressure sensitive tape (including friction)..	..do.....	(NA)	(NA)	20,285	25,801	25,953	18,174
3069571	Rolls and platens, solid and covered rubber (except wringer and printers rolls, ink rollers).....		xxx	xxx	16,903	xxx	xxx	12,557
3069581	Tank blocks, treads, and band tracks.....		xxx	xxx	11,165	xxx	xxx	43,256
3069583	Fuel cells.....		xxx	xxx	42,499	xxx	xxx	67,854
3069585	Boats, pontoons, and life rafts.....		xxx	xxx	6,281	xxx	xxx	15,128
3069598	Other.....		xxx	xxx	83,611	xxx	xxx	291,207
3069500	Mechanical rubber goods, nsk.....		xxx	xxx	11,869	xxx	xxx	...
30696--	Rubber heels and soles.....		xxx	xxx	134,856	xxx	xxx	113,088
	Shoe products rubber, elastomer resin:							
3069611	Heels.....	1,000 pairs...	287,973	283,408	41,470	253,375	253,134	31,907
3069631	Soles.....	..do.....	135,808	131,184	45,414	145,607	145,454	48,242
3069651	Soling slabs and top lift sheets.....	1,000 sq. ft..	148,190	143,671	47,972	115,313	115,568	32,939
30697--	Druggist and medical sundries.....		xxx	xxx	56,953	xxx	xxx	46,776
	Rubber druggist and medical sundries, including household gloves:							
3069711	Water bottles, fountain syringes, and combinations.....	Gross.....	30,145	30,464	5,352	47,908	46,186	7,042
3069731	Nipples and pacifiers.....	..do.....	763,209	696,923	4,635	652,191	667,838	3,702
	Gloves (including rubberized):							
3069751	Household.....	Dozen pairs...	1,378,471	1,395,486	8,632	1,173,075	1,123,553	5,721
3069761	Surgical.....	..do.....	2,404,983	2,299,824	7,780	1,641,261	1,551,610	5,365
3069771	Other (including ice bags and caps, prophylactics, and medical-surgical tubing).....		xxx	xxx	30,187	xxx	xxx	24,946
3069700	Rubber druggist and medical sundries, nsk.....		xxx	xxx	367	xxx	xxx	...
30698--	Other rubber goods, nec.....		xxx	xxx	392,308	xxx	xxx	343,100
	Rubber coated fabrics:							
3069811	Automotive decking.....	1,000 sq. yds.	906	911	1,041	4,130	4,179	3,372
3069814	Garment fabrics.....	..do.....	13,801	13,781	6,506	12,702	12,781	4,933
3069815	Hospital and crib sheeting.....	..do.....	(NA)	(NA)	2,233	5,256	5,237	3,335
3069816	Shoe and slipper fabrics.....	..do.....	21,964	21,980	9,691	19,107	19,229	12,568
3069817	Other coated fabrics (including automotive and furniture upholstery).....	..do.....	(NA)	(NA)	19,305	38,391	38,415	23,240
	Rubber clothing <sup>5</sup> :							
3069841	Industrial rubber gloves.....	Dozen pairs...	817,683	820,350	7,206	757,565	754,107	8,295
3069853	Baby pants.....	Dozen.....	xxx	xxx	( <sup>6</sup> )	826,576	794,370	3,992
3069855	Bathing and shower caps.....	Gross.....	69,302	66,996	5,360	75,963	74,811	4,387
3069858	Other rubber clothing (rainwear, aprons, dress shields, etc.) <sup>7</sup> .....		xxx	xxx	3,006	xxx	xxx	<sup>8</sup> 503
3069861	Thread, bare.....	1,000 lbs.....	15,139	15,415	22,267	12,810	11,468	18,101
	Cement for sale as such:							
3069864	Latex type.....	1,000 gals....	(NA)	(NA)	28,669	39,990	39,984	54,542
3069865	Solvent type.....	..do.....	(NA)	(NA)	44,835			
	Balloons:							
3069868-69	Toy, advertising, and meteorological.....	Gross.....	(NA)	(NA)	11,584	6,509,686	6,566,777	9,076
	Stationers sundries:							
3069873	Bands.....	1,000 lbs.....	(NA)	(NA)	7,039	5,950	5,834	5,517
3069874	Other (including finger cots, erasers, but excluding pencil plugs).....	..do.....	(NA)	(NA)	4,284	<sup>9</sup> 3,983	<sup>9</sup> 3,964	<sup>9</sup> 3,427
3069879	Balls, except tennis, bowling, golf, footballs and other inflatable athletic balls.....		xxx	xxx	5,629	xxx	xxx	5,724
3069881	Toys, except balloons, balls, and dolls.....		xxx	xxx	6,124	xxx	xxx	13,166
3069891	Compounds or mixtures for sale or interplant transfer.....		xxx	xxx	78,136	xxx	xxx	( <sup>1</sup> )
3069898	Other rubber goods, including rubber brushes, combs, mouth pieces, etc.....		xxx	xxx	<sup>6</sup> 109,892	xxx	xxx	<sup>8</sup> 168,922
3069800	Other rubber goods, nec, nsk.....		xxx	xxx	19,501	xxx	xxx	...
3069000	Fabricated rubber products, nec, nsk.....		xxx	xxx	21,577	xxx	xxx	4,219

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3079---	Miscellaneous plastics products, total.....	.....	xxx	xxx	1,914,467	xxx	xxx	1,285,603
30791--	Plastics dinnerware and housewares, except sheet goods products <sup>10</sup> .....	.....	xxx	xxx	129,665	xxx	xxx	39,958
3079112	Dinnerware.....	1,000 dozen pieces.....	xxx	10,182	40,619	xxx	xxx	<sup>11</sup> 19,018
3079119	Housewares, including tumblers, spoons, mixing bowls, garbage pails, etc., but excluding sheet goods products such as shower curtains, table cloths, appliance covers, etc.....	.....	xxx	xxx	74,614	xxx	xxx	<sup>12</sup> 19,163
3079100	Plastics dinnerware and housewares, nsk.....	.....	xxx	xxx	14,432	xxx	xxx	1,777
30792--	Plastics pipe, hose, tubing and fitting.....	.....	xxx	xxx	71,574	xxx	xxx	52,725
3079211	Garden hose.....	1,000 lbs.....	(NA)	(NA)	20,463	47,772	47,334	24,784
3079219	Other hose.....	..do.....	(NA)	(NA)	5,640	6,770	6,767	3,882
3079221	Tubing (under 1/2 inch interior diameter).....	..do.....	(NA)	(NA)	8,742	xxx	xxx	5,573
	Pipe (over 1/2 inch interior diameter):							
3079231	Polyethylene.....	..do.....	39,148	39,161	21,273	26,576	26,326	18,486
3079235	Other.....	..do.....	15,852	14,455	10,534			
3079241	Fittings and unions.....	..do.....	(NA)	(NA)	4,922	(NA)	(NA)	(NA)
30793--	Molded plastics products, nec.....	.....	xxx	xxx	625,776	xxx	xxx	529,674
	Nonreinforced molded products:							
3079311	Compression and transfer.....	.....	xxx	xxx	106,164	xxx	xxx	<sup>13</sup> 138,749
3079321	Cast.....	.....	xxx	xxx	14,326	xxx	xxx	<sup>13</sup> 11,298
3079331	Injection.....	.....	xxx	xxx	316,239	xxx	xxx	<sup>13</sup> 304,751
3079351	Cold.....	.....	xxx	xxx	2,929	xxx	xxx	<sup>13</sup> 9,064
3079371	Extrusion.....	.....	xxx	xxx	67,793	xxx	xxx	<sup>13</sup> 43,570
3079381	Reinforced molded products.....	.....	xxx	xxx	50,271	xxx	xxx	(13)
3079300	Molded plastics products, nec, not specified by process.....	.....	xxx	xxx	68,054	xxx	xxx	22,242
30794--	Unsupported vinyl and polyethylene film and sheeting <sup>14</sup> .....	.....	xxx	xxx	267,328	xxx	xxx	169,067
30794--	Made from purchased resins.....	.....	xxx	xxx	230,670	xxx	xxx	...
28214--	Made from resins manufactured in same establishment.....	.....	xxx	xxx	36,658	xxx	xxx	...
	Vinyl and vinyl copolymer (see code 28214):							
3079411	Under 3.0 mils.....	1,000 lbs.....	(NA)	(NA)	35,319	27,116	26,955	22,175
2821411								
3079415	3.0-3.9 mils.....	..do.....	26,617	(NA)	15,389	35,633	35,835	19,122
2821413								
3079418	4.0-5.9 mils.....	..do.....	34,094	(NA)	18,566	43,007	42,986	21,446
2821415								
3079431	6.0-9.9 mils.....	..do.....	24,210	(NA)	12,081	15,495	15,937	9,357
2821417								
3079435	10.0-14.9 mils.....	..do.....	81,989	(NA)	37,479	50,031	48,055	27,378
2821421								
3079441	15.0-19.9 mils.....	..do.....	36,666	(NA)	13,763	33,509	33,339	16,367
2821423								
3079445	20.0 mils and over (excluding floor, wall, and counter coverings).....	..do.....	(NA)	(NA)	7,110	20,855	20,475	15,327
2821425								
	Polyethylene (see code 28214):							
3079461	Under 1.0 mils.....	..do.....	16,113	15,588	8,082	47,024	46,196	31,859
2821452								
3079463	1.0-1.4 mils.....	..do.....	60,368	60,720	32,073	9,029	8,936	5,943
2821454								
3079465	1.5-2.9 mils.....	..do.....	53,170	53,052	28,167	9,029	8,936	5,943
2821456								
3079467	3.0-9.9 mils.....	..do.....	49,388	49,415	26,728	9,029	8,936	5,943
2821458								
3079469	10.0 mils and over.....	..do.....	3,302	3,262	1,841	9,029	8,936	5,943
2821459								
3079400	Unsupported vinyl and polyethylene film and sheeting, nsk.....	.....	xxx	xxx	30,730	xxx	xxx	93
2821400								
30795--	Unsupported plastics floor and wall coverings.....	.....	xxx	xxx	61,526	xxx	xxx	35,987
3079511	Sheet goods.....	1,000 sq. yds.	(NA)	(NA)	5,524	2,481	2,507	3,308
	Tile:							
3079531	Floor.....	..do.....	15,253	15,013	43,883	7,351	6,429	17,525
3079535	Wall.....	..do.....	(NA)	(NA)	12,119	8,526	8,462	15,154

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter- plant transfers		Total production (quantity)	Total shipments including inter- plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3079---	Miscellaneous plastics products--Continued							
30796--	Expanded or foamed plastics <sup>15</sup> .....		xxx	xxx	54,040	xxx	xxx	17,746
	Flexible:							
3079611	Urethane.....	1,000 lbs....	20,089	19,868	29,201	xxx	xxx	17,746
3079613	Vinyl.....		(NA)	(NA)	8,003			
3079619	Other.....							
	Rigid:							
3079621	Urethane.....	1,000 lbs....	160	158	239	xxx	xxx	17,746
2079623	Styrene.....	..do.....	29,891	29,069	14,807			
3079629	Other.....	..do.....	1,476	1,354	1,790			
	High pressure laminated sheets.....		xxx	xxx	90,358			
	High pressure, thermosetting:					xxx	xxx	102,401
3079711	Decorative.....	1,000 sq. yds.	43,668	42,284	64,109			
3079721	Metal clad for printed circuits.....	1,000 lbs....	4,360	3,999	6,381			
3079731	Other high pressure, except metal clad for printed circuits.....	..do.....	17,873	13,870	18,560			
3079700	High pressure laminated sheets, nsk.....		xxx	xxx	1,308	xxx	xxx	314,922
30798--	Laminated sheets, rods, and tubes, other than high pressure.....		xxx	xxx	72,566			
3079811	Thermoplastic sheets laminated on other materials, except wall coverings and packaging materials.....		(NA)	(NA)	20,507			
3079831	Thermoplastic rods and tubes.....		(NA)	(NA)	4,279			
	Thermosetting:					xxx	xxx	18,817
3079841	Sheets, low pressure.....	1,000 lbs....	33,473	32,314	30,255			
3079851	Rods and tubes.....	..do.....	3,889	2,274	7,413			
3079800	Laminated sheets, rods, and tubes, nsk.....		xxx	xxx	10,112			
30799--	Fabricated plastics products, nec.....		xxx	xxx	462,234	xxx	xxx	314,922
	Products fabricated from laminates:					xxx	xxx	49,572
	Thermosetting (including gears and bearings):							
3079911	High pressure.....		xxx	xxx	24,200			
3079913	Low pressure.....		xxx	xxx	6,159			
3079917	Other (including gears and bearings).....		xxx	xxx	4,481	xxx	xxx	6,982
	Miscellaneous plastics products:					xxx	xxx	8,258 (16)
3079921	Arctics and gaiters.....	1,000 pairs...	(NA)	(NA)	18,281			
3079923	Balloons, toy, advertising, and meteorological.		(NA)	(NA)	4,917			
	Battery jars, boxes, and parts (including asphalt):							
3079926	Jars and boxes.....	1,000 units...	9,548	10,790	5,490	xxx	xxx	18,817
3079928	Parts.....		xxx	xxx	4,595			
	Druggist and medical sundries:							
3079933	Nipples and pacifiers.....		(NA)	(NA)	835			
3079939	Other (including ice bags and caps, surgical tubing, etc.).....		xxx	xxx	2,621	xxx	xxx	1,938
3079941	Boats (inflatable), pontoons, and life rafts..		xxx	xxx	(16)	xxx	xxx	1,163
	Shoe products:					xxx	xxx	(16) (16) (16)
3079945	Heels.....	1,000 pairs...	95,063	95,184	19,180			
3079946	Outsoles.....	..do.....	(NA)	(NA)	(16)			
3079947	Soling slabs and toplift sheets.....	1,000 sq. ft..	(NA)	(NA)	(16)			
3079953	Packing (for sealing moving parts).....	1,000 lbs....	(NA)	(NA)	(16)	xxx	xxx	1,495
	Closures:					xxx	xxx	20,425
	Commercial, except caps for collapsible tubes:							
3079972	For glass containers only.....	1,000 units...	3,502,230	3,506,352	26,542			
3079973	For metal and plastics containers.....	..do.....	(NA)	(NA)	6,079			
3079974	Other, including caps for collapsible tubes.		(NA)	(NA)	2,189	xxx	xxx	2,046
3079981	Synthetic sausage casings including cellulosic and fibrous reinforced.....	1,000 lbs....	(NA)	(NA)	(16)	(NA)	14,538	31,061

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3079---	Miscellaneous plastics products--Continued							
30799--	Fabricated plastics products, nec--Continued							
3079992	Miscellaneous plastics products:							
	Doors, folding (accordion type), plastic or plastic coated fabric.....		(NA)	(NA)	15,069	(NA)	(NA)	(1)
3079993	Squeeze bottles, except housewares.....		(NA)	(NA)	22,195	(NA)	(NA)	(1)
3079998	Other plastics products.....		xxx	xxx	<sup>1e</sup> 264,933	xxx	xxx	<sup>1e</sup> 144,817
3079900	Fabricated plastics products, nec, nsk.....		xxx	xxx	34,468	xxx	xxx	28,348
3079000	Plastics products, not specified by process or by kind.....		xxx	xxx	79,400	xxx	xxx	23,123

\*Revised.

NA Not available.

<sup>1</sup>Not separately reported in 1954.<sup>2</sup>Code 3011561 included with code 3069598 "Other rubber mechanical goods."<sup>3</sup>Any vulcanizable material, except reclaimed residue or "mud" derived from processing or treatment of material or synthetic (chemical) vulcanized scrap rubber.<sup>4</sup>Grindings of scrap not devulcanized by the pan or digester process.<sup>5</sup>Additional data are shown in Major Group 23, Apparel and Related Products.<sup>6</sup>For 1958, code 3069853 was combined with code 3069898.<sup>7</sup>For additional detail, see Industry 2385, Raincoats and Other Waterproof Outer Garments.<sup>8</sup>Rainwear and rubber bibs and dress shields are combined with code 3069898. This value includes aprons and "Other rubber clothing."<sup>9</sup>For 1954, this item consists only of erasers, excluding pencil plugs.<sup>10</sup>In 1954, described as "Table and kitchen articles (for serving, cooking, preparing, and storing food and drink)."<sup>11</sup>Value reported for "Tableware."<sup>12</sup>Value reported for "Kitchenware."<sup>13</sup>For 1954, code 3079381 was included in codes 3079311-21-31-51-71.<sup>14</sup>Includes quantities manufactured from resins produced in same establishments as well as quantities manufactured from purchased resins.<sup>15</sup>Includes data for porous cellular materials used in thermal, electrical, and sound insulation, buoys, core materials, etc.<sup>16</sup>For 1954, codes 3079923, 3079933, 3079945-47, combined with code 3079998. For 1958, codes 3079941, 3079946, 3079947, 3079953, and 3079981 combined with code 3079998.



## 30A-21

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Other rubber goods, nec (30698):</u>			<u>Plastic pipe, hose, tubing, and fittings (30792)--</u>	1958 <sup>1</sup>		<u>Unsupported vinyl and polyethylene film and sheeting (20794 and 282114)--</u>	1958 <sup>1</sup> 1954	
United States, total:			Continued			Continued		
1958.....	392,308		North Central.....	23,557		New England.....	32,816	32,884
1957.....	441,534		Ohio.....	17,288		Massachusetts.....	17,192	19,471
1956.....	425,086		South.....	13,185		Middle Atlantic.....	122,913	78,459
1955.....	428,758		Texas.....	2,734		New York.....	56,154	38,773
1954.....	373,259		West.....	8,302		New Jersey.....	45,019	21,809
1953.....	371,891		California.....	5,465		Pennsylvania.....	21,740	17,877
1952.....	353,509					North Central.....	86,425	50,542
1951.....	336,681					Ohio.....	18,723	10,678
1950.....	264,869					Illinois.....	17,754	( <sup>3</sup> )
1947.....	215,854					South.....	12,564	2,424
	1958 <sup>1</sup>	1954	<u>Molded plastic products, nec (30793):</u>	Value of shipments		Pacific.....	12,610	4,758
New England.....	106,726	104,834	United States, total:				Value of shipments	
Massachusetts.....	70,196	66,411	1958.....	625,776			1958 <sup>1</sup>	
Rhode Island.....	15,425	12,305	1957.....	673,376		<u>Unsupported plastic floor and wall coverings (30795):</u>		
Connecticut.....	19,944	22,757	1956.....	653,555		United States, total.....	61,526	
Middle Atlantic.....	66,420	65,808	1955.....	611,762		Northeast.....	28,879	
New York.....	18,162	20,202	1954.....	529,674		Massachusetts.....	4,956	
New Jersey.....	30,407	28,587	1953.....	713,632		New Jersey.....	18,697	
Pennsylvania.....	17,851	17,018	1952.....	580,189		East North Central.....	15,520	
East North Central.....	140,962	141,086	1951.....	534,216		Ohio.....	9,513	
Ohio.....	97,186	89,154	1950.....	468,334		Illinois.....	3,363	
Indiana.....	9,795	17,134	1947.....	240,100		South.....	16,708	
Illinois.....	17,863	14,419		1958 <sup>1</sup>	1954	<u>Expanded or foamed plastics (30796):</u>		
Michigan.....	11,775	16,474	New England.....	101,959	94,051	United States, total.....	54,040	
Wisconsin.....	4,343	3,905	Vermont.....	2,970	( <sup>3</sup> )	New England.....	7,248	
West North Central.....	9,345	7,055	Massachusetts.....	61,964	57,014	Middle Atlantic.....	9,591	
South Atlantic.....	30,705	22,806	Rhode Island.....	10,515	6,932	New York.....	1,969	
Maryland.....	2,144	5,615	Connecticut.....	26,374	27,088	New Jersey.....	3,442	
Virginia.....	2,906	( <sup>2</sup> )	Middle Atlantic.....	172,700	153,599	Pennsylvania.....	4,180	
North Carolina.....	7,172	1,669	New York.....	69,926	57,647	North Central.....	29,820	
Georgia.....	14,675	6,583	New Jersey.....	53,931	46,759	Ohio.....	8,853	
Florida.....	122	1,120	Pennsylvania.....	48,843	49,193	Indiana.....	6,371	
East South Central.....	10,653	5,633	East North Central.....	243,167	215,697	Michigan.....	6,415	
West South Central.....	3,185	1,994	Ohio.....	60,926	59,683	New York.....	1,969	
West.....	24,312	24,043	Indiana.....	34,098	35,466	New Jersey.....	3,442	
<u>Plastic dinner and housewares, except sheet goods products (30791):</u>	Value of shipments		Illinois.....	97,569	86,384	Pennsylvania.....	4,180	
United States, total:			Michigan.....	35,757	25,509	Middle Atlantic.....	9,591	
1958.....	129,665		Wisconsin.....	14,817	8,655	New York.....	1,969	
1954.....	39,958		West North Central.....	28,211	20,310	New Jersey.....	3,442	
	1958 <sup>1</sup>	1954	Minnesota.....	14,590	9,864	Pennsylvania.....	4,180	
Northeast.....	57,465	21,588	Missouri.....	11,309	9,545	North Central.....	29,820	
Massachusetts.....	17,724	12,085	Nebraska.....	1,625	( <sup>2</sup> )	Ohio.....	8,853	
New York.....	3,766	2,150	South Atlantic.....	16,084	10,476	Indiana.....	6,371	
New Jersey.....	6,616	( <sup>3</sup> )	Delaware.....	1,180	( <sup>2</sup> )	Michigan.....	6,415	
Pennsylvania.....	2,236	1,321	Maryland.....	4,828	( <sup>3</sup> )	South.....	5,172	
East North Central.....	48,079	6,804	South Carolina.....	4,299	( <sup>2</sup> )	Pacific.....	2,209	
Ohio.....	23,664	( <sup>2</sup> )	Florida.....	2,323	1,259			
Illinois.....	17,622	2,551	East South Central.....	8,231	5,522	<u>High pressure laminated sheets (30797):</u>		
Michigan.....	3,240	2,698	Kentucky.....	2,863	( <sup>3</sup> )	United States, total.....	90,358	
West North Central.....	2,681	3,632	Tennessee.....	3,696	1,992	Northeast.....	12,597	
	Value of shipments		West South Central.....	4,387	( <sup>2</sup> )	Pennsylvania.....	4,278	
<u>Plastic pipe, hose, tubing, and fittings (30792):</u>	1958 <sup>1</sup>		Texas.....	3,543	( <sup>2</sup> )	East North Central.....	57,667	
United States, total.....	71,574		West.....	51,037	29,133	Pacific.....	2,751	
New England.....	7,851		California.....	49,040	26,959	<u>Laminated sheets, rods, and tubes, other than high pressure (30798):</u>		
Middle Atlantic.....	18,679					United States, total.....	72,566	
New York.....	2,429		<u>Unsupported vinyl and polyethylene film and sheeting (30794 and 282114):</u>	Value of shipments		New England.....	4,858	
New Jersey.....	9,926		United States, total:			Massachusetts.....	3,783	
Pennsylvania.....	6,324		1958.....	267,328				
			1957.....	278,817				
			1956.....	256,520				
			1955.....	225,186				
			1954.....	169,067				

See footnotes at end of table.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
Laminated sheets, rods, and tubes, other than high pressure (30798)-- Continued	1958 <sup>1</sup>	Fabricated plastics products, nec (30799): United States, total.....	1958 <sup>1</sup>	Fabricated plastics products, nec (30799)-- Continued	1958 <sup>1</sup>
Middle Atlantic.....	29,556	New England.....	462,234	West North Central.....	15,337
New York.....	15,460	Maine.....	79,426	Minnesota.....	2,912
New Jersey.....	5,117	New Hampshire.....	9,182	Missouri.....	9,710
Pennsylvania.....	8,979	Massachusetts.....	2,226	South Atlantic.....	21,797
East North Central.....	25,022	Rhode Island.....	4,189	Delaware.....	7,361
Ohio.....	8,122	Connecticut.....	15,902	Maryland.....	3,391
Wisconsin.....	4,476	Middle Atlantic.....	130,119	Virginia.....	5,280
South Atlantic.....	2,591	New York.....	62,447	Georgia.....	1,695
Pacific.....	9,077	New Jersey.....	39,804	East South Central.....	11,348
California.....	9,077	Pennsylvania.....	27,868	West South Central.....	10,105
		East North Central.....	146,706	Texas.....	6,587
		Ohio.....	15,133	Mountain.....	3,608
		Indiana.....	23,318	Pacific.....	43,788
		Illinois.....	85,742	Washington.....	2,042
		Michigan.....	17,110	California.....	41,141
		Wisconsin.....	5,403		

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosing individual company figures: 30111, Massachusetts, Connecticut, New York, Ohio, Michigan, Wisconsin, Iowa, Kansas, Maryland, Tennessee, Alabama, Mississippi, Arkansas, Oklahoma, Texas, Colorado, and California; 30112, Massachusetts, Connecticut, New York, Ohio, Michigan, Wisconsin, Iowa, Kansas, Maryland, Tennessee, Alabama, Mississippi, Oklahoma, Texas, Colorado, and California; 30113, Massachusetts, New York, Ohio, Indiana, Michigan, Wisconsin, Iowa, Kansas, Maryland, Alabama, Oklahoma, Texas, and California; 30115, Massachusetts, Rhode Island, Connecticut, New Jersey, Indiana, Wisconsin, Iowa, Kansas, Maryland, Georgia, Tennessee, Alabama, Mississippi, Arkansas, Oklahoma, Colorado, Washington, and Oregon; 30210, New Hampshire, Rhode Island, Connecticut, New York, New Jersey, Indiana, Illinois, Wisconsin, Maryland, Tennessee, and California; 30310, Massachusetts, Connecticut, New York, Pennsylvania, Ohio, Illinois, Tennessee, and California; 30691, Massachusetts, New York, Minnesota, Nebraska, North Carolina, Colorado, Utah, and California; 30692, Massachusetts, Connecticut, New York, Pennsylvania, Indiana, Illinois, Nebraska, Delaware, Maryland, North Carolina, Utah, and California; 30693, Massachusetts, Rhode Island, Connecticut, Indiana, Michigan, Iowa, Virginia, North Carolina, Texas, and California; 30694, Rhode Island, Connecticut, Indiana, Illinois, Michigan, Alabama, Texas, and California; 30695, New Hampshire, Rhode Island, Missouri, West Virginia, North Carolina, South Carolina, Florida, Kentucky, Alabama, Colorado, Utah, and Oregon; 30696, Maine, New Hampshire, Vermont, Connecticut, New York, New Jersey, Indiana, Missouri, Virginia, Tennessee, and Texas; 30697, Rhode Island, Connecticut, Missouri, and Delaware; 30698, Minnesota, Missouri, Kansas, Delaware, South Carolina, Tennessee, Alabama, Arkansas, Colorado, and California; 30791, Rhode Island, Connecticut, Wisconsin, Missouri, Texas, and California; 30792, Massachusetts, Rhode Island, Indiana, Delaware, North Carolina, Kentucky, and Colorado; 30793, Virginia and Alabama; 30794 and 28214, Rhode Island, Connecticut, Indiana, Michigan, Wisconsin, Iowa, Virginia, North Carolina, Georgia, Kentucky, Texas, and California; 30795, Maine, New York, Pennsylvania, Wisconsin, Alabama, and Louisiana; 30796, Massachusetts, Connecticut, Illinois, Iowa, Missouri, Maryland, Virginia, and California; 30797, Massachusetts, New Jersey, Ohio, Illinois, Wisconsin, Iowa, Maryland, and South Carolina; 30798, Illinois, Michigan, and South Carolina; 30799, West Virginia, Florida, Kentucky, Tennessee, Arkansas, and Arizona.

<sup>2</sup>Shipments of less than \$1 million reported.

<sup>3</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

Table 7A—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3011—TIRES AND INNER TUBES					
	Materials, containers and supplies, total.....		xxx	1,158,324	xxx	972,192
	Natural rubber:					
086113	Latex (dry solids content).....	Long tons.....	12,750	10,311	15,933	11,452
086115	Dry.....	do.....	303,397	177,108	385,057	176,456
	Synthetic rubber:					
282411	Butadiene-styrene type (containing 50% or more butadiene).....	do.....	<sup>1</sup> 500,198	234,444	319,305	159,329
282413	Butyl type.....	do.....	43,145	22,845	54,240	28,067
282419	Neoprene.....	do.....	5,105	4,733	6,704	5,741
282421	N-type (butadiene-acrylonitrile).....	do.....	<sup>1</sup> 1,734	1,037		
282425	Other.....	do.....	<sup>2</sup> 2,070	1,731		
303111	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	do.....	<sup>1</sup> 153,118	30,667	<sup>2</sup> 125,175	24,514
309953	Rubber compounds and mixtures purchased (dry rubber solids content).....	do.....	(NA)	7,993	( <sup>3</sup> )	( <sup>3</sup> )
282317	Thermosetting resins.....	1,000 lbs.....	307	207	1,127	554
282319	Thermoplastic resins.....	do.....	<sup>1</sup> 3,153	879		
	Tire cord and tire fabric:					
222411	Cotton cord.....	do.....	5,688	5,482	xxx	
222421	Rayon cord.....	do.....	220,467	158,281		
222431	Nylon cord.....	do.....	92,244	139,366		
222441	Chafer and other tire fabrics.....	do.....	24,386	20,753		
	Other fabrics:					
223011	Cotton.....	do.....	9,089	6,007	xxx	566,079
223013	Rayon.....	do.....	2,287	1,622		
223015	Nylon.....	do.....	3,517	5,173		
223017	Other.....	do.....	593	446		
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	<sup>r</sup> 325,259	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	3,980	xxx	
	INDUSTRY 3021—RUBBER FOOTWEAR					
	Materials, containers and supplies, total.....		xxx	68,997	xxx	56,953
	Natural rubber:					
086113	Latex.....	Long tons.....	1,201	901	523	397
086115	Dry.....	do.....	17,418	10,703	18,860	9,482
	Synthetic rubber:					
282411	Butadiene-styrene type (containing 50% or more butadiene).....	do.....	6,365	3,577	2,984	1,681
282413	Butyl type.....	do.....	225	114	997	694
282419	Neoprene.....	do.....	284	238		
282421	N-type (butadiene-acrylonitrile).....	do.....	68	63		
303111	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	do.....	1,501	348	<sup>2</sup> 855	197
309953	Rubber compounds and mixtures purchased (dry rubber solids content).....	do.....	1,742	2,961	( <sup>3</sup> )	( <sup>3</sup> )
282319	Thermoplastic resins.....	1,000 lbs.....	2,232	1,110	xxx	
	Fabrics:					
223011	Cotton.....	do.....	13,403	12,593	xxx	44,502
223013	Rayon.....	do.....	119	165		
223015	Nylon.....	do.....	118	234		
223017	Other.....	do.....	1,172	1,540		
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	30,012	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	44,438	xxx	
	INDUSTRY 3031—RECLAIMED RUBBER AND INDUSTRY 3069—FABRICATED RUBBER PRODUCTS, NEC					
	Materials, containers and supplies, total.....		xxx	<sup>5</sup> 765,081	xxx	<sup>6</sup> 729,316
	Natural rubber:					
086113	Latex (dry solids content).....	Long tons.....	54,036	44,181	54,496	38,139
086115	Dry.....	do.....	75,313	46,784	111,490	57,919
	Synthetic rubber:					
282411	Butadiene-styrene type (containing 50% or more butadiene).....	do.....	161,624	84,580	146,412	74,363
282413	Butyl type.....	do.....	7,145	3,864	15,248	5,561
282419	Neoprene.....	do.....	37,733	34,218	43,716	38,533
282421	N-type (butadiene-acrylonitrile).....	do.....	10,504	12,137		
282425	Other.....	do.....	4,828	7,132		
303111	Reclaimed rubber (excluding "mud" and crumb or ground scrap).....	do.....	<sup>1</sup> 93,214	14,370	<sup>2</sup> 101,830	19,304
309953	Rubber compounds and mixtures purchased (dry rubber solids content).....	do.....	(NA)	15,900	( <sup>3</sup> )	( <sup>3</sup> )
282317	Thermosetting resins.....	1,000 lbs.....	9,373	2,088	67,518	17,229
282319	Thermoplastic resins.....	do.....	72,793	23,877		
	Tire cord and tire fabric:					
222411	Cotton cord.....	do.....	1,398	1,067	xxx	
222421	Rayon cord.....	do.....	2,901	1,905		
222431	Nylon cord.....	do.....	605	867		
222441	Chafer and other tire fabrics.....	do.....	531	496		
	Other fabrics:					
223011	Cotton.....	do.....	59,001	42,550	xxx	478,268
223013	Rayon.....	do.....	7,560	5,435		
223015	Nylon.....	do.....	(NA)	5,230		
223017	Other.....	do.....	(NA)	12,963		
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	356,894	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	448,543	xxx	

See footnotes at end of table.



# RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

30A-25

Table 7A.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3079—PLASTICS PRODUCTS, NEC					
	Materials, containers and supplies, total.....		xxx	861,827	xxx	570,672
282317	Thermosetting resins.....	1,000 lbs.....	254,848	80,786	291,368	89,779
282319	Thermoplastic resins, including modified resins.....	do.....	824,331	284,657	526,303	201,579
223111	Cotton fabrics.....	1,000 lin. yds.	30,584	8,018	xxx	
223198	Other textile fabrics.....	do.....	13,385	8,512	xxx	
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	307,751	xxx	
973000	Materials, containers, supplies, nsk.....		xxx	172,103	xxx	

NA Not available. <sup>r</sup> Revised.

<sup>1</sup>Included in these quantity figures are the following percentages which were produced and consumed in the same establishments, and for which no value is shown: Industry 3011—Butadiene-styrene type, less than 2 percent; N-type, between 27 and 32 percent; other synthetic rubber, between 2 and 5 percent; reclaimed rubber, less than 10 percent; thermoplastic resins, between 40 and 45 percent; Industries 3031 and 3069—Reclaimed rubber, between 25 and 30 percent.

<sup>2</sup>Excludes quantities produced and consumed in the same establishments.

<sup>3</sup>Not separately classified in 1954, included in code 970099.

<sup>4</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>5</sup>Includes \$14,923 thousand for Industry 3031 and \$752,745 thousand for Industry 3069.

<sup>6</sup>Includes \$14,978 thousand for Industry 3031 and \$714,338 thousand for Industry 3069.

Table 7B.—Quantity and Cost of Rubber Consumed in the Rubber Products Industries, by Region and States: 1958

Region and State	Natural rubber		Synthetic rubber		Reclaimed rubber	
	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)	Quantity (Long tons)	Delivered cost (\$1,000)
United States, total.....	464,115	289,988	1781,028	1410,713	2247,833	245,385
New England.....	64,872	43,151	92,359	53,199	23,428	4,234
New Hampshire.....	814	532	1,438	860	(D)	(D)
Massachusetts.....	34,355	22,672	62,561	34,946	18,000	3,000
Rhode Island.....	7,209	5,534	2,618	1,845	(D)	(D)
Connecticut.....	21,807	14,046	22,244	14,035	3,644	931
Middle Atlantic.....	52,441	34,868	93,998	52,778	27,246	4,957
New York.....	15,073	10,810	19,455	11,557	6,067	1,453
New Jersey.....	12,760	9,217	14,566	10,560	3,979	921
Pennsylvania.....	24,608	14,841	59,977	30,661	17,700	2,583
East North Central.....	186,630	114,996	266,169	138,121	120,028	22,181
Ohio.....	130,473	79,663	160,169	83,116	73,044	12,633
Indiana.....	8,775	5,646	25,403	14,991	11,730	1,939
Illinois.....	3,590	2,312	(D)	(D)	(D)	(D)
Michigan.....	31,021	19,203	47,180	22,467	21,453	4,690
Wisconsin.....	12,771	8,172	(D)	(D)	(D)	(D)
West North Central.....	29,678	16,974	54,563	24,890	16,845	3,614
Minnesota.....	972	608	1,060	830	(D)	(D)
Iowa.....	14,819	8,692	29,772	13,410	10,143	2,347
Missouri.....	759	556	3,692	2,153	1,239	248
South Atlantic.....	25,129	15,808	50,901	27,506	7,989	1,690
Maryland.....	14,543	8,266	26,215	12,635	5,025	1,139
Virginia.....	2,198	1,369	2,709	2,066	(D)	(D)
West Virginia.....	...	...	2,267	1,205	(D)	(D)
North Carolina.....	2,922	2,173	7,318	4,544	(D)	(D)
Georgia.....	5,220	3,830	10,417	5,418	(D)	(D)
East South Central.....	40,539	23,192	91,235	45,528	17,436	2,553
Tennessee.....	16,007	9,791	25,172	13,020	4,402	896
Alabama.....	20,362	11,175	57,345	27,128	9,639	889
West South Central.....	20,756	13,385	45,916	23,499	9,364	1,952
Texas.....	10,202	6,995	24,702	12,375	3,255	740
West.....	44,070	27,614	85,887	45,192	24,997	4,204
California.....	36,281	22,317	66,558	34,437	(D)	(D)

D Withheld to avoid disclosing figures for individual companies, or valued at less than \$100,000. <sup>r</sup> Revised.

<sup>1</sup>Includes less than 1 percent synthetic rubber produced and consumed in the same establishment. Value of this rubber is not reflected in the "delivered cost" column.

<sup>2</sup>Includes 39,716 long tons of reclaimed rubber produced and consumed in the same establishment. Of this total 4,924 long tons was in New England and 17,780 tons in East North Central. Value of this reclaimed rubber is not reflected in the "delivered cost" column.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7C.—Quantity of Rubber Consumed in the Rubber Products Industries, by Type of Rubber and Class of Product: 1958

Code	Class of product	1958			1954		
		Natural rubber	Synthetic rubber	Reclaimed rubber	Natural rubber	Synthetic rubber	Natural rubber
	Total rubber reported consumed by rubber products industries (3011-3069).....	464,115	781,028	247,833	586,359	592,606	260,701
	Tires and tire products:						
161	Passenger car tires.....	99,813	315,097	91,781	168,004	216,477	93,809
162	Truck and bus tires (including off-the-road).....	164,178	66,312	20,939	170,219	47,911	11,030
163	All other pneumatic and solid tires.....	16,896	33,252	21,883	20,371	23,115	24,867
164	Inner tubes.....	3,077	39,418	5,988	6,096	55,274	6,423
165	Tread rubber (camelback), tire sundries and repair materials.....	18,340	103,160	7,730	26,821	55,063	5,623
	Mechanical rubber goods:						
166	Flooring (mats, matting, tile, etc.).....	3,641	15,064	40,389	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
167	Belting, hoses, and packing.....	15,543	31,137	15,161	16,528	20,123	14,314
168	Sponge rubber.....	52,969	29,775	943	52,262	23,269	5,042
169	Other (including flotation equipment, tank trucks, etc.).....	23,819	64,651	24,434	39,765	71,265	68,097
170	Thread and cements.....	14,751	10,876	1,906	7,986	3,776	4,309
171	Footwear.....	18,995	5,013	1,410	18,493	3,109	2,107
172	Shoe products (heels, soles, and findings).....	8,038	46,778	9,369	16,161	33,297	9,560
173	Rubber druggist and medical sundries.....	4,259	736	5	43,653	39,927	15,520
174	Compounds and mixtures (produced for sale as such) <sup>2</sup> ...	5,841	4,318	1,659			
175	All other rubber products (including proofed goods)...	13,955	15,441	4,236			

<sup>1</sup>Included in code 169 for 1954.<sup>2</sup>Respondents were requested to include in this table the rubber reported in table 7A under code 309953. Since this involves some duplication of rubber reported above under code 174, the quantities in code 174 were reduced so that total rubber consumed would equal the totals reported in table 7A for codes 086113-15, 282411-25, and 303111.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Number of establishments, total	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (gross) (\$1,000)	Value of shipments (gross) (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3011	TIRES AND INNER TUBES (entire industry)	123	89,395	521,855	69,959	133,268	388,702	1,179,957	1,386,694	2,577,788	72,269
	Establishments with:										
	90% or more specialization.....	100	64,139	374,790	50,925	98,030	286,541	932,431	1,026,444	1,964,634	53,589
30111	Passenger car and motorcycle pneumatic tires (primary product class of estab.).....	32	60,351	359,072	47,676	93,176	274,990	878,300	940,751	1,824,984	47,368
30112	Truck and bus (and off-the-road) pneumatic tires (primary product class of estab.).....	5	21,898	126,898	16,475	28,550	87,835	230,499	362,793	599,016	21,127
30113	Other pneumatic tires and solid tires (primary product class of estab.).....	16	1,172	5,936	989	1,971	4,586	12,505	9,792	22,251	707
	Establishments with:										
	90% or more specialization....	10	214	981	152	299	574	2,457	2,078	4,558	( <sup>1</sup> )
30114	All inner tubes (primary product class of estab.).....	7	3,045	15,253	2,484	5,026	11,879	26,517	32,919	59,151	845
30115	Tread rubber, tire sundries and repair materials (primary product class of estab.).....	63	2,929	14,696	2,335	4,545	9,412	32,136	40,439	72,386	2,222
	Establishments with:										
	90% or more specialization....	52	1,572	6,898	1,255	2,498	4,860	17,302	26,773	43,982	1,319
3021	RUBBER FOOTWEAR (entire industry).....	27	20,359	85,611	17,602	34,131	68,573	149,608	81,715	229,439	3,109
	Establishments with:										
	90% or more specialization.....	19	11,610	46,851	10,028	19,055	36,717	76,699	41,191	116,880	1,339
3031	RECLAIMED RUBBER (entire industry).....	16	2,215	11,658	1,793	3,330	9,076	20,843	18,615	39,260	964
	Establishments with:										
	90% or more specialization.....	11	1,484	7,720	1,166	2,158	5,866	13,120	11,665	24,578	622
3069	FABRICATED RUBBER PRODUCTS, NEC (entire industry).....	1,074	119,565	592,964	89,158	176,994	396,129	997,254	881,321	1,885,274	43,603
	Establishments with:										
	90% or more specialization.....	873	414	338,954	51,903	102,094	223,766	562,992	510,141	1,076,982	25,548
	75-89% specialization.....	71	22,307	114,741	16,529	33,211	78,974	200,954	176,612	380,169	8,947
30691	Rubber belts and belting (primary product class of estab.).....	15	8,350	46,125	5,908	11,723	31,631	96,211	52,669	148,502	4,162
	Establishments with:										
	90% or more specialization....	6	577	3,504	338	628	1,817	6,569	3,543	10,053	( <sup>1</sup> )
	75-89% specialization.....	3	1,771	9,404	1,445	2,850	7,482	19,885	10,871	29,921	( <sup>1</sup> )
30692	Rubber hose and tubing (primary product class of estab.).....	42	11,272	57,019	8,377	16,282	39,191	99,620	80,459	179,965	4,625
	Establishments with:										
	90% or more specialization....	18	1,299	6,322	1,074	2,172	4,938	13,209	9,597	22,725	1,600
	75-89% specialization.....	4	1,666	8,784	1,299	2,586	6,554	14,103	12,279	26,454	( <sup>1</sup> )
30693	Sponge and foam rubber goods (primary product class of estab.)..	86	12,914	66,435	10,072	20,617	48,256	115,144	107,951	227,685	5,931
	Establishments with:										
	90% or more specialization....	64	3,406	16,301	2,648	5,414	11,354	28,946	31,703	62,039	1,691
30694	Rubber floor and wall covering (primary product class of estab.)..	46	4,312	22,186	3,446	7,325	16,515	37,310	39,550	76,688	2,295
	Establishments with:										
	90% or more specialization....	30	1,197	5,534	1,030	2,168	4,139	10,283	9,278	19,512	1,483
30695	Mechanical rubber goods, nec (primary product class of estab.)..	295	455	204,526	30,533	61,693	137,995	314,163	228,289	543,405	12,585
	Establishments with:										
	90% or more specialization....	190	14,540	71,348	11,368	22,906	48,260	112,099	66,490	178,785	4,674
	75-89% specialization.....	37	6,391	31,896	4,644	9,466	20,554	44,260	33,948	79,764	1,533
30696	Rubber heels and soles (primary product class of estab.).....	37	9,973	40,500	8,047	16,020	29,747	75,953	80,191	153,832	3,002
	Establishments with:										
	90% or more specialization....	28	6,557	26,642	5,374	10,780	20,097	50,924	50,210	98,918	2,103
30697	Druggist and medical sundries (primary product class of estab.)..	37	5,285	23,092	4,150	8,025	16,082	46,216	23,988	69,476	1,717
	Establishments with:										
	90% or more specialization....	28	2,873	12,532	2,255	4,505	8,678	27,730	12,635	39,697	1,044
30698	Other rubber goods, nec (primary product class of estab.).....	353	25,264	126,350	17,205	32,471	71,428	200,495	253,569	458,854	8,441
	Establishments with:										
	90% or more specialization....	264	7,694	35,294	5,591	10,780	20,853	74,376	95,406	170,682	2,797
	75-89% specialization.....	31	2,331	10,940	1,671	3,312	6,409	24,800	30,254	54,839	727

See footnotes at end of table.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Number of establishments, total	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (gross) (\$1,000)	Value of shipments (gross) (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3079	PLASTICS PRODUCTS, NEC (entire industry).....	3,222	116,308	511,207	91,988	183,253	348,892	928,950	948,283	1,867,877	76,951
	Establishments with:										
	90% or more specialization.....	2,466	82,818	359,539	65,647	129,746	244,762	668,437	676,356	1,335,757	105
	75-89% specialization.....	124	10,348	51,343	9,102	18,781	35,635	80,289	89,699	170,008	4,970
30791	Plastic dinner and housewares, except sheet goods products (primary product class of estab.)..	105	6,455	27,620	5,262	10,397	18,835	70,472	55,544	123,849	5,294
	Establishments with:										
	90% or more specialization....	80	4,104	16,697	3,411	6,715	11,190	50,081	37,279	86,020	4,146
	75-89% specialization.....	5	1,045	4,772	760	1,513	2,851	9,641	9,832	19,552	667
30792	Plastic pipe, hose, tubing and fittings (primary product class of estab.).....	69	2,459	11,345	1,835	3,680	7,029	25,223	28,383	52,587	2,242
	Establishments with:										
	90% or more specialization....	47	1,559	7,587	1,101	2,215	4,363	18,483	18,797	36,518	1,662
	75-89% specialization.....	7	154	668	131	300	435	1,099	1,449	2,519	( <sup>1</sup> )
30793	Molded plastic products, nec (primary product class of estab.)..	1,242	45,454	195,133	37,067	73,564	136,984	319,110	300,519	620,187	24,017
	Establishments with:										
	90% or more specialization....	1,009	28,673	120,673	23,640	46,520	85,184	199,262	188,299	386,945	17,168
	75-89% specialization.....	112	7,070	31,170	5,735	11,649	22,009	48,153	46,607	95,035	2,746
30794	Unsupported vinyl and polyethylene film and sheeting (made from purchased resin) (primary product class of estab.).....	102	8,541	44,038	6,436	13,781	29,921	95,042	168,934	260,659	7,950
	Establishments with:										
	90% or more specialization....	81	4,549	23,426	3,497	7,463	15,818	47,658	98,273	143,945	4,818
	75-89% specialization.....	4	168	721	123	196	352	2,781	2,905	5,570	(D)
30795	Unsupported plastic floor and wall coverings (primary product class of estab.).....	26	2,859	14,377	2,337	4,946	9,805	21,724	39,933	61,685	1,900
	Establishments with:										
	90% or more specialization....	12	403	1,654	338	623	1,026	2,988	3,909	6,738	( <sup>1</sup> )
	75-89% specialization.....	6	1,357	7,852	1,099	2,556	5,305	10,772	23,825	34,859	509
30796	Expanded or foamed plastics (primary product class of estab.)..	35	2,297	10,502	1,569	3,051	6,316	17,262	21,586	38,987	2,040
	Establishments with:										
	90% or more specialization....	30	830	3,879	620	1,237	2,485	9,345	10,560	19,825	952
30797	High pressure laminated sheets (primary product class of estab.)..	42	5,506	27,536	4,011	8,477	17,412	59,193	49,152	106,889	4,188
	Establishments with:										
	90% or more specialization....	30	2,549	13,322	2,038	4,423	9,432	28,758	23,132	51,923	(D)
30798	Laminated sheets, rods and tubes, other than high pressure (primary product class of estab.).....	76	3,817	203	2,898	5,671	13,115	38,195	36,811	74,250	1,508
	Establishments with:										
	90% or more specialization....	51	49	6,062	964	2,007	4,072	13,350	16,418	29,345	674
30799	Fabricated plastics products, nec (primary product class of estab.)..	584	29,483	127,864	22,719	45,122	83,089	216,493	185,986	400,641	16,378
	Establishments with:										
	90% or more specialization....	443	17,450	76,003	13,424	26,568	48,967	133,604	106,955	239,436	9,644
	75-89% specialization.....	49	2,747	11,142	2,280	4,653	7,889	18,414	19,876	37,850	653

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.



# Major Group 31.—Leather and Leather Products

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other

materials. Leather "converters" who assign hides and skins to contractors for tanning and finishing are included in Industry 3111, Leather Tanning and Finishing.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees <sup>1</sup>		Production workers			Adjusted value added by manufac- ture <sup>2</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	359,107	1,196,464	310,048	565,874	912,024	1,897,465	31,736
Administrative and auxiliary establishments <sup>3</sup> ..	(NA)	(NA)	10,057	50,781	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments <sup>3</sup> .....	4,534	2,225	349,050	1,145,683	310,048	565,874	912,024	1,897,465	31,736
Operating manufacturing establishments (based on old SIC).....	4,374	2,163	342,782	1,123,800	304,752	556,011	896,460	1,863,858	30,936
Operating manufacturing establishments:									
1957 <sup>4</sup> .....	(NA)	(NA)	361,945	1,156,661	322,788	589,507	938,535	1,891,636	31,733
1956 <sup>4</sup> .....	(NA)	(NA)	366,821	1,149,229	328,782	606,690	938,564	1,881,647	36,813
1955 <sup>4</sup> .....	(NA)	(NA)	366,204	1,102,212	329,533	613,385	895,596	1,778,079	37,433
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	365,334	1,065,196	321,161	586,857	833,694	1,640,804	28,053
Administrative and auxiliary establishments <sup>3</sup> ..	(NA)	(NA)	8,756	37,882	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	4,845	2,267	356,578	1,027,314	321,161	586,857	833,694	1,640,804	28,053
Operating manufacturing establishments:									
1953 <sup>4</sup> .....	(NA)	(NA)	375,364	1,098,806	338,355	629,498	896,502	1,711,066	24,678
1952 <sup>4</sup> .....	5,012	(NA)	361,373	1,015,535	324,008	605,356	834,103	1,597,377	18,745
1951 <sup>4</sup> .....	4,883	(NA)	353,770	944,582	317,604	575,635	767,982	1,475,451	22,385
1950 <sup>4</sup> .....	4,903	(NA)	385,123	949,271	341,733	629,260	773,381	1,498,811	25,791
1949 <sup>4</sup> .....	(NA)	(NA)	375,246	891,734	337,483	609,556	721,888	1,386,550	29,618
1947.....	5,308	(NA)	383,264	873,746	348,615	677,001	725,308	1,533,028	31,301
1939.....	3,505	(NA)	(NA)	(NA)	327,189	(NA)	293,922	582,915	(NA)
1937.....	3,249	(NA)	(NA)	(NA)	328,551	(NA)	308,027	583,780	(NA)
1935.....	3,506	(NA)	336,112	333,427	310,755	(NA)	279,740	530,138	(NA)
1933.....	3,265	(NA)	301,951	254,071	282,000	(NA)	222,487	452,036	(NA)
1931.....	3,702	(NA)	(NA)	(NA)	272,757	(NA)	262,130	523,676	(NA)
1929.....	4,285	(NA)	351,224	443,827	318,472	(NA)	359,461	774,179	(NA)
1927.....	4,272	(NA)	350,380	443,832	316,081	(NA)	364,537	780,799	(NA)
1925.....	4,252	(NA)	(NA)	(NA)	314,128	(NA)	355,419	751,004	(NA)
1923.....	4,881	(NA)	(NA)	(NA)	345,650	(NA)	389,677	797,259	(NA)
1921.....	4,827	(NA)	313,877	385,184	280,363	(NA)	314,652	610,382	(NA)
1919.....	6,423	(NA)	394,104	469,321	350,079	(NA)	364,036	898,313	(NA)
1914.....	6,798	(NA)	340,741	213,331	308,223	(NA)	169,917	353,280	(NA)
1909.....	5,785	(NA)	339,992	190,969	311,312	(NA)	155,814	325,203	(NA)
1904.....	5,376	(NA)	284,300	141,004	266,013	(NA)	121,436	246,064	(NA)
1899.....	5,685	(NA)	265,218	117,404	249,913	(NA)	101,982	186,870	(NA)

NA Not available.

<sup>1</sup>The figures for 1939 through 1958 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. For industries reporting the value of production, the adjustment for the change in finished products inventories was not made. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>4</sup>In addition to data for operating establishments, 1954 and 1958 data are shown for manufacturers' central administrative offices and auxiliary units. Similar data are shown for the years 1949-1953 and 1955-1957 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>5</sup>Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these establishments are not available for the years 1955-1957, or prior to 1949.

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expenditures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
31	LEATHER AND LEATHER PRODUCTS, TOTAL.	4 534	2 225	349 050	1 145 683	310 048	565 874	912 024	1 897 465	31 736	356 578	4 637 417
	NEW ENGLAND . . . . .	1 085	629	108 625	368 868	96 096	173 099	289 960	573 158	9 682	110 090	477 162
	MAINE . . . . .	115	82	21 519	68 246	19 126	35 359	53 606	101 125	1 589	19 754	78 431
	NEW HAMPSHIRE . . . . .	117	85	20 256	65 843	18 302	32 844	54 828	97 339	1 154	21 013	86 400
	VERMONT . . . . .	9	5	689	2 186	1 300	1 300	1 850	3 713	102	536	2 372
	MASSACHUSETTS . . . . .	751	407	61 062	215 004	53 625	95 360	166 329	342 203	6 188	65 568	296 637
	RHODE ISLAND . . . . .	46	23	1 643	5 358	1 309	2 548	3 452	9 522	125	718	3 666
	CONNECTICUT . . . . .	47	27	3 456	12 231	3 096	5 688	9 895	19 256	524	2 500	9 655
	MIDDLE ATLANTIC . . . . .	2 019	902	103 197	338 185	91 849	171 489	271 696	531 538	9 073	103 319	451 725
	NEW YORK . . . . .	1 543	581	58 795	195 101	51 832	94 900	155 558	311 675	5 057	61 364	274 670
	NEW JERSEY . . . . .	194	115	12 087	44 009	10 655	20 769	33 480	67 248	1 137	11 275	56 178
	PENNSYLVANIA . . . . .	282	206	32 315	99 075	29 362	55 820	82 658	152 615	2 879	30 679	120 877
	EAST NORTH CENTRAL . . . . .	503	255	52 741	189 769	46 172	84 563	148 119	326 470	5 463	58 861	307 433
	OHIO . . . . .	92	34	10 920	40 122	9 589	17 837	31 304	62 456	1 092	13 004	60 816
	INDIANA . . . . .	27	17	2 640	8 473	2 460	4 789	7 470	15 727	269	2 156	10 762
	ILLINOIS . . . . .	202	95	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21 871	116 627
	MICHIGAN . . . . .	38	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4 245	25 613
	WISCONSIN . . . . .	144	86	16 924	65 476	14 258	26 833	48 341	108 367	1 773	17 583	93 614
	WEST NORTH CENTRAL . . . . .	222	159	36 727	105 596	33 136	57 884	85 672	200 649	1 708	39 073	182 081
	MINNESOTA . . . . .	19	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 599	8 070
	IOWA . . . . .	10	3	290	686	235	425	476	958	(D)	580	1 893
	MISSOURI . . . . .	178	141	34 605	97 890	31 387	54 620	80 330	188 115	1 395	36 719	171 449
	NORTH DAKOTA . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA . . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA . . . . .	5	2	113	310	96	226	260	447	(D)	(*)	(*)
	KANSAS . . . . .	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	126	504
	SOUTH ATLANTIC . . . . .	166	89	15 833	46 966	14 033	25 615	37 852	74 505	1 414	15 099	62 827
	DELAWARE . . . . .	11	9	1 738	7 077	1 398	2 630	5 347	12 014	215	1 994	12 025
	MARYLAND . . . . .	22	16	2 491	7 644	2 171	3 985	5 792	10 849	132	2 623	10 163
	VIRGINIA . . . . .	24	19	5 029	12 876	4 533	7 683	11 008	19 174	225	5 137	16 682
	WEST VIRGINIA . . . . .	5	5	819	2 593	755	1 442	2 295	5 073	75	933	4 164
	NORTH CAROLINA . . . . .	36	11	1 307	4 406	1 085	2 030	3 094	6 870	354	1 383	5 754
	SOUTH CAROLINA . . . . .	7	1	56	227	42	80	137	375	13	(*)	(*)
	GEORGIA . . . . .	26	18	3 504	9 346	3 288	6 303	8 054	15 247	281	2 463	11 406
	FLORIDA . . . . .	35	10	889	2 797	761	1 462	2 125	4 903	119	504	2 400
	EAST SOUTH CENTRAL . . . . .	106	70	16 072	44 444	14 961	28 116	38 598	97 139	1 771	14 113	71 787
	KENTUCKY . . . . .	16	10	2 282	6 512	2 124	3 842	5 786	13 335	144	2 516	12 930
	TENNESSEE . . . . .	78	54	11 850	32 511	11 013	20 626	27 999	71 655	1 357	10 833	54 819
	ALABAMA . . . . .	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MISSISSIPPI . . . . .	7	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	116	44	7 297	17 909	6 593	11 510	15 093	34 175	716	7 248	27 331
	ARKANSAS . . . . .	14	13	3 947	9 156	3 751	6 336	8 424	20 663	404	3 626	16 301
	LOUISIANA . . . . .	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	OKLAHOMA . . . . .	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	211	849
	TEXAS . . . . .	91	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3 410	10 180
	MOUNTAIN . . . . .	47	7	2 201	9 785	1 813	3 411	6 905	19 690	568	1 983	18 507
	MONTANA . . . . .	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	IDAHO . . . . .	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	COLORADO . . . . .	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEW MEXICO . . . . .	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ARIZONA . . . . .	10	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	UTAH . . . . .	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	PACIFIC . . . . .	270	70	6 357	24 161	5 395	10 187	18 129	40 141	1 341	6 788	38 559
	WASHINGTON . . . . .	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	497	2 444
	OREGON . . . . .	21	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	198	949
	CALIFORNIA . . . . .	228	61	5 786	22 210	4 916	9 374	16 740	37 157	1 265	6 092	35 166
311	LEATHER TANNING AND FINISHING, TOTAL <sup>2</sup>	578	280	37 130	165 545	32 466	63 376	133 183	275 796	7 905	43 468	264 264
312	INDUSTRIAL LEATHER BELTING, TOTAL <sup>2</sup>	104	32	3 975	18 689	2 769	5 371	11 506	36 300	1 233	4 576	34 911
313	FOOTWEAR CUT STOCK, TOTAL <sup>2</sup>	513	235	18 031	58 489	15 516	28 859	44 570	98 380	2 002	20 059	87 185
314	FOOTWEAR, EXCEPT RUBBER, TOTAL	1 279	984	226 831	699 478	204 482	366 527	570 470	1 145 916	15 034	230 255	985 754
	NEW ENGLAND . . . . .	380	325	79 045	255 750	70 901	125 457	204 413	382 821	4 544	80 192	322 335
	MAINE . . . . .	77	60	19 233	60 114	17 111	31 373	47 098	88 388	996	17 983	71 195
	NEW HAMPSHIRE . . . . .	60	55	16 871	53 171	15 336	27 165	44 541	77 937	863	17 332	69 039
	MASSACHUSETTS . . . . .	224	194	41 071	136 667	36 749	63 922	108 135	208 619	2 612	43 238	176 271
	MIDDLE ATLANTIC . . . . .	423	310	50 668	159 305	45 807	84 975	132 609	237 459	4 470	49 686	203 210
	NEW YORK . . . . .	264	168	25 319	84 906	22 567	40 536	69 901	125 481	2 203	27 659	119 481
	NEW JERSEY . . . . .	20	15	1 710	6 618	1 542	3 017	5 091	8 696	118	1 677	8 065
	PENNSYLVANIA . . . . .	139	127	23 639	67 781	21 698	41 422	57 617	103 282	2 149	20 349	75 664

See footnotes at end of table.



Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expenditures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
314	FOOTWEAR, EXCEPT RUBBER—CONTINUED											
	EAST NORTH CENTRAL . . . . .	145	110	34 712	112 674	30 882	55 007	89 259	197 882	2 158	38 968	185 476
	OHIO . . . . .	25	18	8 561	30 166	7 630	13 995	23 575	45 883	683	10 200	43 543
	ILLINOIS . . . . .	47	35	13 082	38 108	11 978	20 330	32 143	74 797	(D)	15 604	77 623
	WISCONSIN . . . . .	56	44	10 006	34 540	8 422	15 326	24 949	57 579	545	10 562	50 663
	WEST NORTH CENTRAL . . . . .	114	100	30 328	84 529	27 588	47 616	70 309	164 063	1 008	32 044	149 239
	MISSOURI . . . . .	93	87	28 779	79 246	26 317	45 246	66 832	155 331	905	30 730	143 340
	SOUTH ATLANTIC . . . . .	44	37	9 644	25 752	8 629	15 533	21 116	36 622	550	8 596	30 905
	MARYLAND . . . . .	12	11	1 936	5 792	1 690	3 129	4 432	8 165	76	2 122	7 615
	GEORGIA . . . . .	11	11	2 608	6 352	2 465	4 712	5 703	10 451	234	1 723	8 429
	EAST SOUTH CENTRAL . . . . .	50	44	13 449	36 573	12 591	23 665	32 052	83 045	1 335	11 789	58 378
	TENNESSEE . . . . .	37	33	9 699	26 215	9 073	17 001	22 796	60 344	1 030	8 975	45 430
	WEST SOUTH CENTRAL . . . . .	50	27	5 984	14 305	5 432	9 315	12 233	27 683	543	6 086	22 435
	ARKANSAS . . . . .	11	10	3 768	8 754	3 583	6 043	8 067	20 042	393	(*)	(*)
	TEXAS . . . . .	39	17	2 216	5 551	1 849	3 272	4 166	7 641	150	2 607	6 988
	PACIFIC . . . . .	65	29	2 878	10 287	2 545	4 771	8 249	15 791	384	(*)	(*)
315	LEATHER GLOVES, TOTAL <sup>2</sup> . . . . .	179	76	6 212	15 999	5 503	9 214	12 705	25 999	263	6 917	23 185
316	LUGGAGE, TOTAL <sup>2 3</sup> . . . . .	428	159	15 856	54 717	13 725	25 138	40 282	96 560	1 504	<sup>3</sup> 15 856	<sup>3</sup> 89 385
317	PURSES AND SMALL LEATHER GOODS, TOTAL <sup>3</sup> . . . . .	1 020	385	35 610	115 115	30 964	58 611	86 123	187 287	2 953	<sup>1 3</sup> 37 547	<sup>1 3</sup> 163 076
	NEW ENGLAND . . . . .	85	47	6 214	21 916	5 284	9 719	15 902	33 129	850	6 199	28 465
	MASSACHUSETTS . . . . .	40	25	3 837	13 808	3 181	5 639	9 371	19 207	385	3 867	17 437
	CONNECTICUT . . . . .	15	9	1 390	5 221	1 223	2 298	4 229	9 072	391	504	1 978
	MIDDLE ATLANTIC . . . . .	748	282	24 520	76 761	21 568	41 314	58 944	124 222	1 762	25 651	107 771
	NEW YORK . . . . .	655	224	17 506	55 778	15 188	29 118	42 415	91 734	1 363	18 681	81 699
	NEW JERSEY . . . . .	66	41	5 091	15 690	4 605	8 986	12 157	23 796	329	5 068	19 536
	PENNSYLVANIA . . . . .	27	17	1 923	5 293	1 775	3 210	4 372	8 692	70	1 900	6 534
	NORTH CENTRAL . . . . .	76	31	3 145	11 669	2 601	4 852	7 418	20 472	170	3 958	19 444
	ILLINOIS . . . . .	34	12	814	2 581	716	1 287	1 983	4 637	48	1 239	5 760
	SOUTH . . . . .	60	16	1 101	2 684	948	1 667	2 051	5 505	134	974	3 399
	FLORIDA . . . . .	21	5	283	724	236	397	518	1 582	50	210	1 040
	TEXAS . . . . .	11	2	141	391	119	233	318	686	46	157	537
	MOUNTAIN . . . . .	5	...	18	39	16	22	35	70	4	(*)	(*)
	PACIFIC . . . . .	46	9	612	5 405	17 651	4 623	8 778	31 227	842	(*)	(*)
319	LEATHER GOODS, NEC, TOTAL . . . . .	433	74	5 405	17 651	4 623	8 778	13 185	31 227	842	5 900	27 211

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revision in the Standard Industrial Classification system which resulted in noncomparable data.

D The 1958 figures are not shown to avoid disclosing figures for individual companies.

<sup>1</sup>The 1954 totals for Major Group 31 are not completely comparable with the 1958 data. The 1954 totals exclude data for establishments classified in old SIC Industry 3986, "Jewelry and Instrument Cases." In 1958, such establishments were generally classified in new SIC Industry 3172, "Small Leather Goods," while a small number were included in Industry 3161, "Luggage." In 1954, Industry 3986 had 8,003 employees and value added by manufacture of \$37,599 thousand. The 1954 data for group 317 have been revised to include old Industry 3986. Therefore, the 3-digit totals do not add to the 2-digit total shown in this table.

<sup>2</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

<sup>3</sup>The 1954 data for this industry are not strictly comparable with 1958 figures shown in the table. See Appendix A or section relating to the specified industry in 1958 Census of Manufactures Volume II for further information on the comparability of 1958 and 1954 statistics.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Leather and leather products (SIC 31)	Leather tanning and finishing (SIC 311)	Industrial leather belting (SIC 312)	Footwear cut stock (SIC 313)	Footwear, except rubber (SIC 314)	Leather gloves (SIC 315)	Luggage (SIC 316)	Purses and small leather goods (SIC 317)	Leather goods, nec (SIC 319)
Number of establishments, total.....	4,534	578	104	513	1,279	179	428	1,020	433
With 1-19 employees.....	2,309	298	72	278	295	103	269	635	359
With 20-99 employees.....	1,239	170	22	192	302	62	122	300	69
With 100 employees or more.....	986	110	10	43	682	14	37	85	5
Proprietors and working partners.....Number..	2,115	198	36	235	276	119	297	620	334
All employees:									
Number (average for the year).....	349,050	37,130	3,975	18,031	226,831	6,212	15,856	35,610	5,405
Payroll.....\$1,000..	1,145,683	165,545	18,689	58,489	699,478	15,999	54,717	115,115	17,651
Production workers:									
Number (average for the year).....	310,048	32,466	2,769	15,516	204,482	5,503	13,725	30,964	4,623
March.....	311,435	32,323	2,944	15,727	206,476	5,094	13,123	31,375	4,373
May.....	298,150	31,960	2,475	15,032	199,215	5,434	13,350	26,252	4,432
August.....	313,348	32,544	2,739	15,404	205,746	6,074	14,118	31,839	4,884
November.....	317,992	33,037	2,918	15,901	206,491	5,898	14,326	34,456	4,965
Man-hours.....1,000..	565,874	63,376	5,371	28,859	366,527	9,214	25,138	58,611	8,778
January-March.....do....	143,448	15,837	1,468	7,362	94,609	1,968	5,796	14,363	2,045
April-June.....do....	134,280	15,635	1,215	7,094	86,799	2,320	6,307	12,813	2,097
July-September.....do....	139,387	15,280	1,247	6,885	90,169	2,501	6,274	14,760	2,271
October-December.....do....	148,759	16,624	1,441	7,518	94,950	2,425	6,761	16,675	2,365
Wages.....\$1,000..	912,024	133,183	11,506	44,570	570,470	12,705	40,282	86,123	13,185
Value added by manufacture, adjusted....do....	1,897,465	275,796	36,300	98,380	1,145,916	25,999	96,560	187,287	31,227
Cost of fuels consumed.....do....	13,855	9,221	202	563	2,891	128	256	486	108
Cost of electricity purchased.....do....	14,726	4,730	263	1,116	6,400	147	640	1,215	215
Manufacturers' inventories:									
Beginning of year, total.....do....	529,104	149,719	13,294	25,323	253,706	11,167	27,345	39,846	8,704
Finished products.....do....	193,762	50,921	5,993	9,419	91,333	5,053	11,296	15,700	4,047
Work-in-process.....do....	132,439	58,822	4,567	4,496	49,082	2,058	3,992	8,260	1,162
Materials, supplies, fuel, etc.....do....	202,903	39,976	2,734	11,408	113,291	4,056	12,057	15,886	3,495
End of year, total.....do....	530,906	149,344	13,064	26,248	257,295	9,451	28,187	38,959	8,358
Finished products.....do....	189,857	47,041	6,217	9,287	92,275	4,114	11,608	15,445	3,870
Work-in-process.....do....	136,246	60,307	4,518	4,993	50,837	2,143	3,720	8,590	1,138
Materials, supplies, fuel, etc.....do....	204,803	41,996	2,329	11,968	114,183	3,194	12,859	14,924	3,350
Expenditures for plant and equipment, total.....do....	35,731	8,500	1,286	2,321	17,724	296	1,623	3,099	882
New, total.....do....	31,736	7,905	1,233	2,002	15,034	263	1,504	2,953	842
New structures and additions to plant.....do....	7,085	1,727	154	563	3,346	90	292	513	400
New machinery and equipment.....do....	24,651	6,178	1,079	1,439	11,688	173	1,212	2,440	442
Used plant and equipment.....do....	3,995	595	53	319	2,690	33	119	146	40

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.



# Tanning, Shoes; Industrial Leather Goods

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3111--Leather Tanning and Finishing
- 3121--Industrial Leather Belting and Packing
- 3131--Boot and Shoe Cut Stock and Findings
- 3141--Footwear, Except House Slippers and Rubber Footwear
- 3142--House Slippers

The content of these industries as well as their code numbers were not changed from the previous classification system in the 1957 revision of the Standard Industrial Classification Manual.

### 3111--Leather Tanning and Finishing

This industry comprises establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. For a detailed list of primary products of Industry 3111, refer to table 6A, product codes 3111111 to 3111551.

Patterns of Operation.--The leather tanning and finishing industry is characterized by three major types of establishment operations: (1) "regular tanneries," (2) leather "converters," and (3) "contract tanneries." The regular tannery purchases raw materials, employs production workers in the plant to tan, curry, and finish the hides and skins, and sells the finished product; in effect, this establishment type performs all of the usual manufacturing functions within one establishment.

The leather "converter," on the other hand, typically performs only the entrepreneurial functions of the manufacturing concern, such as buying raw materials, arranging with outside factories (contract tanneries) for the production of the finished leathers, and marketing the finished product. The actual tanning and finishing of the hides and skins is done on contract by the contract tanneries. The contract tanner employs production workers in his own establishment to process materials owned by converters, makes products to specification, and does not become involved in the sale of the finished product.

The 1957 edition of the Standard Industrial Classification Manual included leather converters within the manufacturing sector. The 1945 edition had previously been amended by the Bureau of the Budget to transfer leather converters from Wholesale Trade to Manufacturing. Since leather converters were also included in Manufacturing in earlier Censuses of Manufactures, data for 1958 and earlier years shown in this report are comparable. Wholesalers who resell leathers in the same form as purchased are included in the wholesale segment of the Census of Business.

Methods of Reporting on Census Questionnaires.--Typically, the regular tannery reports figures on employment (including production workers), cost of hides, skins, and other raw materials, and the value of shipments of products made by him from his own materials. The leather converter will show, in addition to his cost of raw materials,

a cost for contract work, and the shipments of products made for him from his own materials. The typical leather converter's questionnaire shows few, if any, production workers but labor costs are indirectly reflected in his report on "cost of contract work." The contract tanner, on the other hand, reports figures on employment (primarily production workers). Instead of showing the shipments of the leathers which he processed (which would duplicate the data reported by his principals), the contractor reports his receipts for the contract work done for leather converters on their materials. His materials costs and contract receipts do not include any costs for materials which he has processed but did not own.

Classification of Establishments.--Since these different methods of operation lead to significant differences in the various relationships between wages and salaries paid, cost of materials, value of shipments, and value added by manufacture, plants were classified by their primary method of operation, as regular tanneries, converters, or contract tanneries. Separate statistics for each group are shown in tables 2-4.

It should be noted, however, that some establishments in Industry 3111 employ more than one method of operating. For example, some establishments act as both a regular tannery and a leather converter, or as a regular and a contract tannery. In assigning the primary method of operation for manufacturer-converter plants, the relationship between wages and salaries paid to the cost of contract work was the determining factor. If direct wage and salary payments were less than payments for contract work, the plant was classified as a converter. For plants operating as both regular and contract tanneries, the relationship between the value of shipments of products made for their own account was compared with the receipts for work done on materials owned by other establishments to determine the plant's primary method of operation.

The specialization and coverage ratios for Industry 3111 were over 90 percent in both 1958 and 1954, indicating a high degree of comparability between industry statistics (tables 1-4) and product statistics (table 6A). Definitions of the specialization and coverage ratios are provided in table 5A.

### 3121--Industrial Leather Belting and Packing

This industry comprises establishments primarily engaged in manufacturing industrial leather products, such as transmission belting, mechanical packings, and textile leathers. Establishments primarily engaged in manufacturing leather gaskets are classified in Industry 3293; rubber belting and packing are included in Industry 3069; plastic belting and packing in Industry 3079; and metallic packing in Industry 3599. For a detailed list of primary products of Industry 3121, refer to table 6A, product codes 3121011 to 3121098.

The specialization and coverage ratios for Industry 3121 were over 90 percent in both 1958 and 1954 indicating a high degree of comparability between industry statistics (tables 1-4) and product statistics (table 6A). Definitions of the specialization and coverage ratios are provided in table 5A. In this connection it should be noted that the



data on shipments of industrial leather products (shown in tables 5A and 6A) represent the value of these figures which enter the "commercial market"; the figures therefore exclude the value of industrial leather products made and consumed in the same plant.

### 3131-Boot and Shoe Cut Stock and Findings

This industry comprises establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in Major Group 30. For a detailed list of primary products of Industry 3131, refer to table 6A, product codes 3131011 to 3131069.

The specialization and coverage ratios for Industry 3131 were over 90 percent in both 1958 and 1954 indicating a high degree of comparability between industry statistics (tables 1-4) and product statistics (table 6A). Definitions of the specialization and coverage ratios are provided in table 5A.

It should be noted that the statistics for the Footwear Cut Stock Industry only include establishments primarily producing for the "commercial" market or for transfer to other plants of the same company. The figures shown in table 6A on the shipments of footwear cut stock and findings do not include the production of these products made and consumed in integrated shoe manufacturing plants.

### 3141-Footwear, Except House Slippers and Rubber Footwear

This industry comprises establishments primarily engaged in the production of boots and shoes designed primarily for street, work, play, or sport wear. Establishments primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes, and other footwear with rubber soles vulcanized to the uppers are classified in Industry 3021; and house slippers in Industry 3142. Footwear made by custom boot makers is covered in the Census of Business. For a detailed list of primary products of Industry 3141, refer to table 6A, product codes 3141112 to 3141798.

The specialization and coverage ratios for Industry 3141 were 99 percent in both 1958 and 1954 indicating a very high degree of comparability between industry statistics (tables 1-4) and product statistics (table 6A). Definitions of the specialization and coverage ratios are provided in table 5A. The manufacture of secondary products by Industry 3141 was limited almost entirely to the production of house slippers.

The Census Bureau publishes monthly data on the production and shipments of shoes and slippers as well as an annual summary in its Current Industrial Reports Series M31A. The products included as primary to Industries 3141 and 3142 are closely comparable in scope to that covered in the M31A survey. The figures on the output of shoes and slippers shown in table 6A differ to some extent from the data published in the Current Industrial Reports Series M31A-08. These differences are due primarily to the methods used in reporting in the two series. In the Current Industrial Reports Series M31A, companies are requested to report the production of all shoes and slippers made and packed in their plants, including shoes and slippers made on contract for others; in the Census of Manufactures, this latter type of operation was reported as "receipts for contract work." In addition, a number of companies reported on a fiscal year basis in the Census of Manufactures while their M31A schedule reflected their calendar year operations.

### 3142-House Slippers

This industry comprises establishments manufacturing house slippers of leather or other materials, except as noted. Establishments primarily engaged in making vulcanized rubber slippers (beach and shower slippers, scuffs, etc.) are classified in Industry 3021; wooden slippers including wooden clogs are classified in Industry 2499; and paper bath slippers in Industry 2649. Textile mills producing slipper socks are classified in Industry 2252. For a detailed list of primary products of Industry 3142, refer to table 6A, product codes 3142011 to 3142079.

The value of production and other receipts of the House Slippers Industry in 1958 totaled \$112 million. This included production of house slippers (primary products), valued at \$99 million, production of secondary products, valued at \$11 million, and miscellaneous receipts of \$2 million. This industry's production of house slippers in 1958 represented 90 percent (specialization ratio) of its total production (primary and secondary products). The industry specialization ratio in 1954 was 89 percent.

Industry 3142 production of house slippers in 1958 represented 85 percent of these products valued at \$116 million made by all industries. The footwear industry (SIC 3141) was the principal other industry making house slippers, \$16 million. In 1954 the coverage ratio was 87 percent.

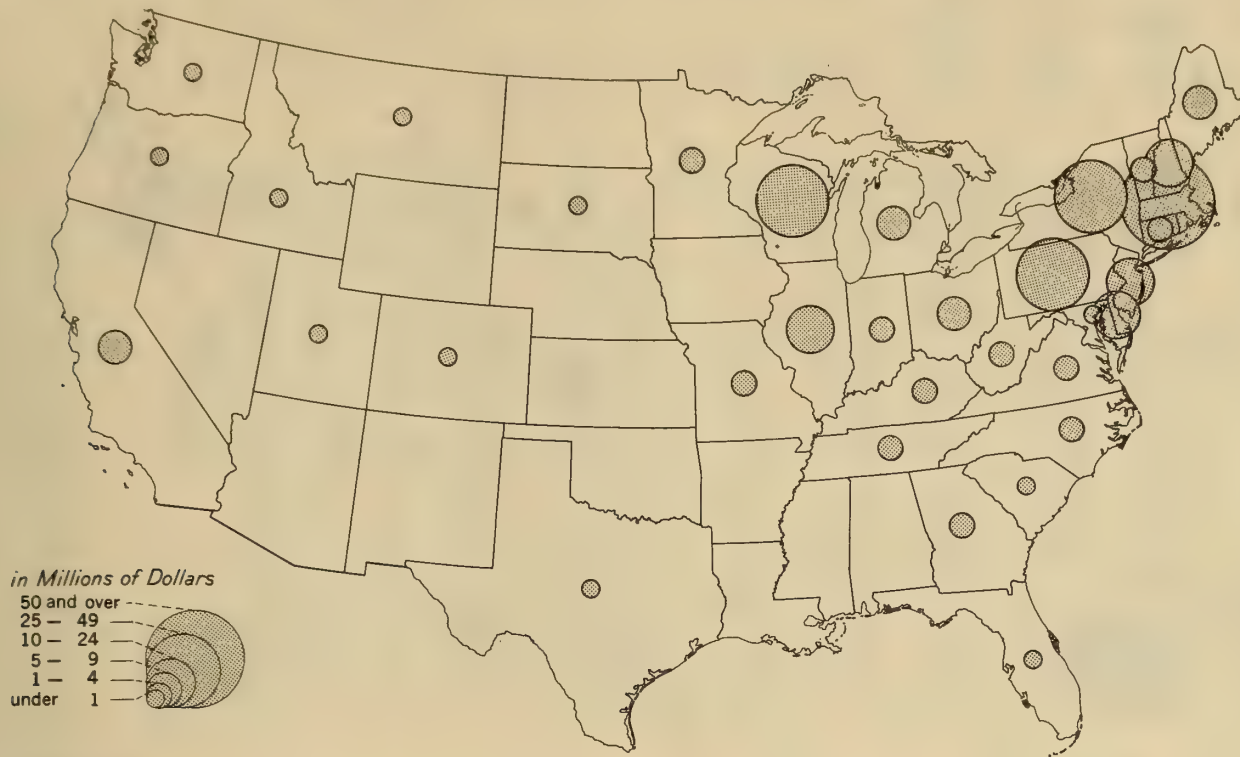
The Census Bureau publishes monthly and annual data on the production of house slippers in Current Industrial Reports Series M31A. Differences between the M31A report and the Census of Manufactures data are discussed above under Industry 3141.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## LEATHER TANNING AND FINISHING: SIC 311

Value Added by Manufacture by State: 1958

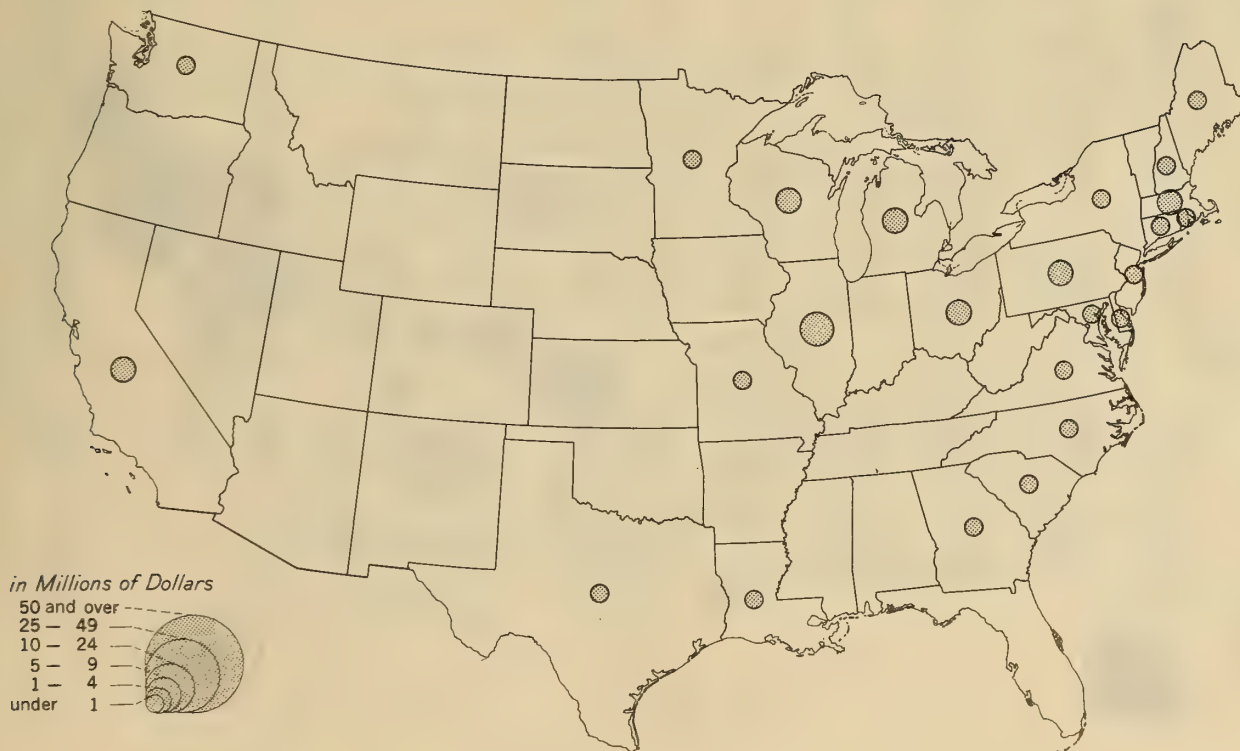


Includes only Industry 3111. See Table 2.

Bureau of the Census M-58-D311

## INDUSTRIAL LEATHER BELTING AND PACKING: SIC 312

Value Added by Manufacture by State: 1958



Includes only Industry 3121. See Table 2.

Bureau of the Census M-58-D312

## BOOT AND SHOE CUT STOCK AND FINDINGS: SIC 313

Value Added by Manufacture by State: 1958

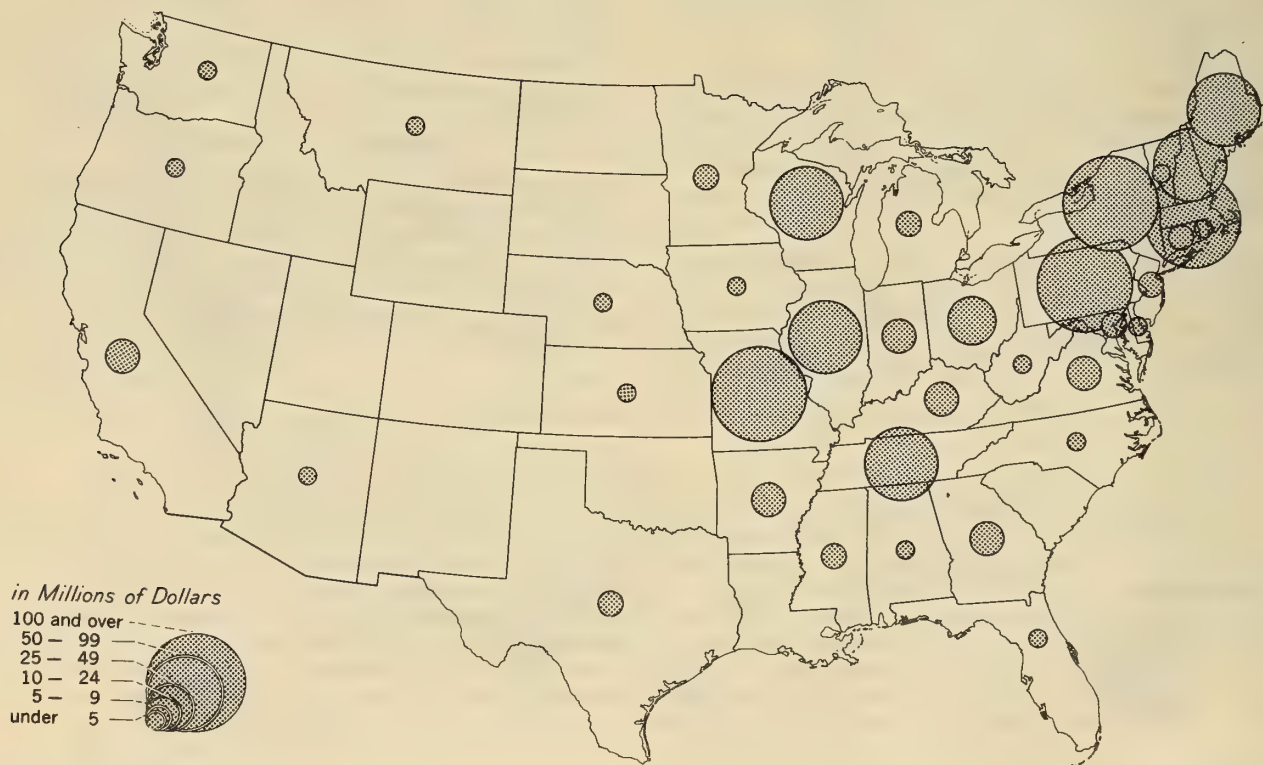


Includes only Industry 3131. See Table 2.

Bureau of the Census M-58-D313

## FOOTWEAR, EXCEPT RUBBER: SIC 314

Value Added by Manufacture by State: 1958



Includes Industries 3141 and 3142. See Table 2.

Bureau of the Census M-58-D314



## TANNING, SHOES, INDUSTRIAL LEATHER GOODS

31A-5

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Special- ization ratio <sup>6</sup> (per- cent)	Cov- erage <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3111 (old SIC 3111)	Leather tanning and finishing:														
	1958.....	521	578	280	37,130	165,545	32,466	63,376	133,183	275,796	464,933	743,124	7,905	100	100
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	40,099	171,071	35,001	68,455	137,409	289,901	454,739	737,432	6,847	98	100
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	41,380	172,452	36,505	72,076	140,973	288,464	480,447	759,479	6,156	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	43,498	177,153	38,640	76,923	144,511	296,634	458,789	762,836	6,579	(NA)	(NA)
	1954.....	525	579	298	43,468	168,139	38,662	75,689	137,487	260,228	448,274	713,324	7,123	98	100
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	46,388	180,251	41,635	83,760	148,983	271,648	496,537	768,205	7,034	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	44,028	162,722	39,476	78,243	134,653	285,515	510,597	796,112	4,193	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	45,103	159,544	40,497	79,597	129,763	286,195	697,136	983,331	7,239	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,623	164,904	44,883	89,065	134,840	318,543	631,478	950,021	7,952	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	50,195	160,333	44,657	88,775	129,192	291,514	587,404	878,918	(S)	(NA)	(NA)
	1947.....	(NA)	561	(NA)	53,261	156,632	48,686	100,964	130,700	403,831	666,436	1,070,267	10,565	100	100
	1939.....	(NA)	446	(NA)	51,592	69,266	47,252	(NA)	56,783	117,394	229,044	346,438	(NA)	(NA)	(NA)
	1937.....	(NA)	402	(NA)	54,427	72,026	50,687	(NA)	61,288	113,516	281,506	395,022	(NA)	(NA)	(NA)
	1935.....	(NA)	384	(NA)	54,823	66,640	50,877	(NA)	55,683	108,934	199,411	308,345	(NA)	(NA)	(NA)
	1933.....	(NA)	374	(NA)	47,008	48,909	44,191	(NA)	43,076	99,025	138,177	237,202	(NA)	(NA)	(NA)
	1931.....	(NA)	418	(NA)	(NA)	(NA)	42,047	(NA)	49,542	98,352	172,786	271,138	(NA)	(NA)	(NA)
	1929.....	(NA)	471	(NA)	54,223	79,063	49,932	(NA)	63,414	143,742	337,598	481,340	(NA)	(NA)	(NA)
	1927.....	(NA)	494	(NA)	57,324	81,743	52,924	(NA)	67,887	162,271	331,985	494,256	(NA)	(NA)	(NA)
	1925.....	(NA)	531	(NA)	(NA)	(NA)	52,263	(NA)	65,834	155,233	296,953	452,186	(NA)	(NA)	(NA)
	1923.....	(NA)	597	(NA)	65,312	89,401	59,703	(NA)	73,784	167,148	321,750	488,898	(NA)	(NA)	(NA)
	1921.....	(NA)	608	(NA)	53,669	71,138	48,955	(NA)	57,741	105,640	277,725	383,365	(NA)	(NA)	(NA)
	1919.....	(NA)	680	(NA)	78,894	108,384	72,476	(NA)	88,205	282,070	646,522	928,592	(NA)	(NA)	(NA)
	1914.....	(NA)	741	(NA)	60,214	39,291	55,936	(NA)	31,914	82,957	284,245	367,202	(NA)	(NA)	(NA)
	1909.....	(NA)	919	(NA)	66,316	38,846	62,202	(NA)	32,103	79,595	248,279	327,874	(NA)	(NA)	(NA)
	1904.....	(NA)	1,049	(NA)	60,490	31,501	57,239	(NA)	27,049	61,442	191,179	252,621	(NA)	(NA)	(NA)
	1899.....	(NA)	1,306	(NA)	54,551	25,750	52,109	(NA)	22,591	49,038	155,000	204,038	(NA)	(NA)	(NA)
3121 (old SIC 3121)	Industrial leather belting, SIC:														
	1958.....	99	104	32	3,975	18,689	2,769	5,371	11,506	36,300	30,435	66,560	1,233	90	92
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,537	20,670	3,128	6,415	12,708	43,839	31,050	72,069	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,860	21,741	3,520	6,910	13,583	50,669	36,633	82,416	(S)	(NA)	(NA)
	1954.....	128	136	34	4,576	18,569	3,342	6,513	11,484	35,383	30,682	67,102	1,955	97	92
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,026	21,147	3,545	7,251	12,930	49,719	32,359	82,078	1,038	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,630	25,595	5,141	10,975	16,601	39,903	52,198	92,101	1,416	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,333	20,205	4,096	8,394	11,522	35,099	30,485	65,584	1,133	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,865	16,064	3,708	7,567	9,696	30,206	34,194	64,400	578	(NA)	(NA)
	1947.....	178	183	43	5,032	13,441	4,015	8,285	9,667	28,375	29,028	57,403	1,320	91	98
	1939.....	(NA)	190	(NA)	3,117	4,941	2,337	(NA)	2,861	10,814	13,596	24,410	(NA)	(NA)	(NA)
	1937.....	(NA)	182	(NA)	3,454	4,869	2,829	(NA)	3,355	12,372	15,529	27,901	(NA)	(NA)	(NA)
	1935.....	(NA)	187	(NA)	3,038	4,016	2,362	(NA)	2,520	9,948	11,574	21,522	(NA)	(NA)	(NA)
	1933.....	(NA)	122	(NA)	2,161	2,502	1,684	(NA)	1,733	7,862	7,018	14,880	(NA)	(NA)	(NA)
	1931.....	(NA)	178	(NA)	(NA)	(NA)	1,640	(NA)	1,968	7,220	7,302	14,522	(NA)	(NA)	(NA)
	1929.....	(NA)	207	(NA)	3,417	5,908	2,602	(NA)	3,550	14,952	20,680	35,632	(NA)	(NA)	(NA)
	1927.....	(NA)	173	(NA)	2,925	4,944	2,164	(NA)	2,925	11,081	16,185	27,266	(NA)	(NA)	(NA)
	1925.....	(NA)	168	(NA)	3,430	5,631	2,644	(NA)	3,505	12,943	18,868	31,811	(NA)	(NA)	(NA)
	1923.....	(NA)	169	(NA)	3,969	5,912	3,160	(NA)	3,895	13,155	24,569	37,724	(NA)	(NA)	(NA)
	1921.....	(NA)	164	(NA)	3,249	5,099	2,268	(NA)	2,842	6,092	13,076	19,168	(NA)	(NA)	(NA)
	1919.....	(NA)	172	(NA)	3,928	5,956	2,765	(NA)	3,260	12,324	28,157	40,481	(NA)	(NA)	(NA)
	1914.....	(NA)	151	(NA)	4,177	3,829	2,951	(NA)	2,070	7,556	15,480	23,036	(NA)	(NA)	(NA)
	1909.....	(NA)	139	(NA)	4,270	3,363	3,006	(NA)	1,861	8,069	15,623	23,692	(NA)	(NA)	(NA)
	1904.....	(NA)	117	(NA)	2,706	1,952	2,092	(NA)	1,165	4,903	9,317	14,220	(NA)	(NA)	(NA)
	1899.....	(NA)	104	(NA)	2,100	1,399	1,667	(NA)	914	3,122	7,500	10,622	(NA)	(NA)	(NA)
3131 (old SIC 3131)	Footwear cut stock:														
	1958.....	472	513	235	18,031	58,489	15,516	28,859	44,570	98,380	158,637	256,652	2,002	95	95
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,470	66,538	20,063	37,248	53,164	109,125	176,214	284,312	(S)	97	96
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,628	63,262	19,103	35,061	49,512	103,742	178,373	279,204	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,898	61,885	19,665	34,401	48,986	96,468	174,301	270,577	(S)	(NA)	(NA)
	1954.....	522	563	261	20,059	57,113	17,641	32,533	44,231	87,070	170,826	259,732	3,063	97	96
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,431	59,305	18,033	34,197	46,510	93,129	175,094	268,223	2,064	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,926	51,707	16,398	28,957	40,913	77,154	186,085	267,249	985	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,988	46,100	15,584	27,535	37,111	66,494	243,598	314,102	(S)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,280	51,585	19,001	34,346	40,718	72,460	200,320	276,790	(S)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,260	46,297	18,003	33,240	37,204	72,988	189,542	262,911	1,386	(NA)	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.-General Statistics for the United States: 1958 and Earlier Years-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Speci- alization ratio <sup>6</sup> (per- cent)	Cov- erage <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3131	Footwear cut stock-- Continued														
	1947.....	544	606	(NA)	22,077	47,793	19,706	38,145	38,468	87,301	206,560	294,309	1,921	99	97
	1939.....	(NA)	520	(NA)	21,293	22,735	18,845	(NA)	17,196	38,912	90,487	129,399	(NA)	(NA)	(NA)
	1937.....	(NA)	470	(NA)	20,780	22,266	18,755	(NA)	17,844	36,672	95,988	132,660	(NA)	(NA)	(NA)
	1935.....	(NA)	498	(NA)	20,263	21,257	18,275	(NA)	16,781	35,262	76,317	111,579	(NA)	(NA)	(NA)
	1933 <sup>10</sup> .....	(NA)	487	(NA)	18,331	16,615	16,798	(NA)	13,918	31,429	61,864	93,293	(NA)	(NA)	(NA)
	1931.....	(NA)	552	(NA)	(NA)	(NA)	17,672	(NA)	16,412	34,827	82,274	117,101	(NA)	(NA)	(NA)
	1929.....	(NA)	592	(NA)	22,290	27,538	19,875	(NA)	21,378	52,563	139,510	192,073	(NA)	(NA)	(NA)
	1927.....	(NA)	580	(NA)	21,230	26,311	18,561	(NA)	20,556	48,627	129,829	178,456	(NA)	(NA)	(NA)
	1925.....	(NA)	571	(NA)	(NA)	(NA)	16,582	(NA)	18,601	41,537	104,575	146,112	(NA)	(NA)	(NA)
	1923.....	(NA)	592	(NA)	(NA)	(NA)	15,903	(NA)	16,255	41,166	199,685	150,851	(NA)	(NA)	(NA)
	1921.....	(NA)	570	(NA)	15,000	18,628	12,966	(NA)	14,222	31,954	79,854	111,808	(NA)	(NA)	(NA)
	1919.....	(NA)	679	(NA)	21,469	23,259	18,656	(NA)	17,312	49,713	174,316	224,029	(NA)	(NA)	(NA)
	1914.....	(NA)	605	(NA)	16,645	9,823	14,533	(NA)	7,278	16,513	71,755	88,268	(NA)	(NA)	(NA)
	1909.....	(NA)	575	(NA)	14,456	7,446	13,181	(NA)	6,104	14,897	55,270	70,167	(NA)	(NA)	(NA)
	1904.....	(NA)	579	(NA)	11,077	4,717	10,370	(NA)	4,012	9,655	27,925	37,580	(NA)	(NA)	(NA)
	1899.....	(NA)	654	(NA)	9,970	3,972	9,401	(NA)	3,483	8,255	22,823	31,078	(NA)	(NA)	(NA)
3141	Footwear, except rubber:														
	1958.....	872	1,115	887	215,311	662,421	194,314	348,481	542,179	1,086,260	964,289	2,048,857	14,444	99	99
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	222,365	680,055	201,027	362,429	570,649	1,083,996	968,063	2,043,805	(S)	99	99
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	222,841	666,566	202,055	368,670	563,428	1,075,422	951,171	2,018,152	17,258	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	221,121	628,322	200,782	372,461	524,058	992,238	910,877	1,891,818	16,347	(NA)	(NA)
	1954.....	970	1,196	931	219,375	589,267	199,907	356,681	490,142	942,961	864,967	1,809,127	11,420	99	99
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	232,546	640,360	212,202	385,053	532,810	982,412	966,000	1,948,412	(S)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	221,748	585,908	200,925	362,520	492,337	884,772	905,099	1,789,871	(S)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	214,800	533,055	194,863	336,987	443,813	815,428	1,031,994	1,847,422	(S)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	230,290	532,906	209,889	371,088	448,115	812,113	914,744	1,726,857	(S)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	229,857	502,474	210,396	364,062	420,823	737,031	874,607	1,611,638	(S)	(NA)	(NA)
	1947.....	1,077	1,292	(NA)	230,882	496,990	212,213	400,757	423,181	751,528	975,081	1,726,609	(S)	(13)	(13)
	1939 <sup>12</sup> .....	(NA)	930	(NA)	(NA)	(NA)	207,767	(NA)	175,384	330,075	369,203	699,278	(NA)	(NA)	(NA)
3142	House slippers:														
	1958.....	160	164	97	11,520	37,057	10,168	18,046	28,291	59,656	52,552	112,145	590	90	85
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,661	38,225	11,188	20,310	28,194	61,048	63,610	123,974	(S)	90	92
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,136	38,326	11,702	21,116	28,479	58,478	62,737	121,177	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,665	35,994	11,235	20,095	27,072	53,762	54,558	106,990	(S)	(NA)	(NA)
	1954.....	170	173	99	10,879	30,065	9,661	16,773	22,911	45,418	45,641	90,760	664	89	87
	1947.....	(13)	208	(NA)	9,433	19,889	8,441	18,895	15,713	34,015	33,373	67,388	(NA)	(13)	(13)
	1939 <sup>12</sup> .....	(NA)	139	(NA)	(NA)	(NA)	10,243	(NA)	8,253	16,072	19,235	35,307	(NA)	(NA)	(NA)
	Total for footwear (except rubber) and house slippers: <sup>12</sup>														
	1958.....	(NA)	1,279	984	226,831	699,478	204,482	366,527	570,470	1,145,916	1,016,841	2,161,002	15,034	100	100
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	235,026	718,280	212,215	382,739	598,843	1,145,044	1,031,673	2,167,779	18,164	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	235,977	704,892	213,757	389,786	591,907	1,133,900	1,031,908	2,139,329	17,937	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	233,786	664,316	212,017	392,556	551,130	1,046,000	965,435	1,998,808	17,716	(NA)	(NA)
	1954.....	(NA)	1,369	1,030	230,254	619,332	209,568	373,455	513,053	988,379	910,608	1,899,887	12,084	100	100
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	244,044	670,318	222,583	403,390	556,749	1,026,968	(NA)	(NA)	11,954	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	231,185	614,358	209,082	378,551	514,516	931,995	(NA)	(NA)	9,515	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	223,760	559,599	202,511	350,549	463,093	854,744	(NA)	(NA)	9,780	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	214,197	560,615	219,803	388,333	470,016	855,424	(NA)	(NA)	(S)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	240,392	530,467	219,866	380,788	442,413	778,336	(NA)	(NA)	12,567	(NA)	(NA)
	1947.....	(NA)	1,500	(NA)	240,315	516,879	220,654	419,652	438,894	785,543	1,008,454	1,793,997	13,344	(NA)	(NA)
	1939.....	(NA)	1,069	(NA)	(NA)	(NA)	218,010	(NA)	183,637	346,147	388,438	734,585	(NA)	(NA)	(NA)
	1937.....	(NA)	1,080	(NA)	230,330	220,352	215,438	(NA)	191,305	352,022	416,305	768,327	(NA)	(NA)	(NA)
	1935.....	(NA)	1,024	(NA)	216,335	200,241	202,113	(NA)	172,349	310,073	333,799	643,872	(NA)	(NA)	(NA)
	1933.....	(NA)	1,132	(NA)	202,795	159,884	190,914	(NA)	142,054	267,122	286,303	553,425	(NA)	(NA)	(NA)
	1931.....	(NA)	1,156	(NA)	(NA)	(NA)	181,374	(NA)	163,271	316,253	337,627	653,880	(NA)	(NA)	(NA)
	1929.....	(NA)	1,341	(NA)	225,235	266,693	205,640	(NA)	222,408	450,868	515,055	965,923	(NA)	(NA)	(NA)
	1927.....	(NA)	1,357	(NA)	223,436	268,434	203,110	(NA)	225,090	450,161	494,553	944,714	(NA)	(NA)	(NA)
	1925.....	(NA)	1,460	(NA)	227,955	267,994	206,992	(NA)	225,788	443,751	481,632	925,383	(NA)	(NA)	(NA)
	1923.....	(NA)	1,606	(NA)	249,565	299,984	225,216	(NA)	250,346	472,621	527,457	1,000,078	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Speci- aliza- tion ratio <sup>6</sup> (per- cent)	Cov- er- age <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3142	Total for footwear (except rubber) and house slippers--Cont <sup>2</sup>														
	1921.....	(NA)	1,505	(NA)	205,044	244,543	183,502	(NA)	204,954	389,044	478,432	867,476	(NA)	(NA)	(NA)
	1919.....	(NA)	1,449	(NA)	236,224	268,860	211,049	(NA)	210,735	439,772	715,269	1,155,041	(NA)	(NA)	(NA)
	1914.....	(NA)	1,355	(NA)	209,258	128,623	191,555	(NA)	105,695	191,403	310,357	501,760	(NA)	(NA)	(NA)
	1909.....	(NA)	1,343	(NA)	199,629	109,646	185,116	(NA)	92,359	165,163	277,468	442,631	(NA)	(NA)	(NA)
	1904.....	(NA)	1,316	(NA)	158,735	77,766	149,924	(NA)	69,060	122,744	197,363	320,107	(NA)	(NA)	(NA)
	1899.....	(NA)	1,599	(NA)	149,609	66,111	141,830	(NA)	58,441	90,337	168,633	258,970	(NA)	(NA)	(NA)

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. For 1958, value of production rather than value of shipments was collected for Industries 3141, Footwear, Except Rubber, and 3142, House Slippers. In computing adjusted value added for these industries, the net change of only work-in-process inventories is included. Adjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3111	264,264	3141	940,704
3121	34,911	3142	45,050
3131	87,185		

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials, Etc., Consumed." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)	Industry Code	Cost of Materials, etc. (\$1,000)
	1958		1954
3111	455,871	3141	948,671
3121	26,937	3142	51,716
3131	147,562		850,012
			45,416

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)	Industry Code	Value of Shipments (\$1,000)
	1958		1954
3111	733,390	3141	2,026,915
3121	61,777	3142	1,790,717
3131	243,242		111,020
			90,466

<sup>6</sup>Represents value of production.<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufacturers volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>9</sup>In this industry which contains a large number of very small establishments, there is a possibility that some of these small establishments may have been misclassified as to industry. This would not affect the statistics other than the number of establishments.<sup>10</sup>Figures for 1933 and earlier years were obtained by combining the data for the two former industries, "Boot and shoe cut stock, not made in boot and shoe factories," and "Boot and shoe findings, not made in boot and shoe factories."<sup>11</sup>For 1958, value of production, rather than value of shipments, was collected for Industries 3141 and 3142. It is believed that this figure is comparable with the figures for earlier years since there is no appreciable difference between production and shipments on an annual basis.<sup>12</sup>"Footwear, except rubber" and "House slippers" formerly constituted a single classification. The separate figures for 1939-1958 have been combined in order that statistics can be shown for the entire period 1899-1958.<sup>13</sup>Comparable data are not available due to significant revisions in the 1947 classification of plants and products in this industry.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3111	Leather tanning and finishing, total....	578	280	37,130	165,545	32,466	63,376	133,183	275,796	743,124	7,905	43,468	264,264	53,261
	New England.....	219	98	11,057	49,977	9,635	18,885	40,098	86,012	243,517	2,686	12,704	78,556	14,567
	Maine.....	11	9	1,375	5,182	1,252	2,548	4,411	8,394	17,273	439	(2)	(2)	(2)
	New Hampshire....	16	11	1,758	7,407	1,567	3,130	6,304	10,971	25,668	198	1,718	9,598	1,299
	Massachusetts....	184	73	7,556	35,948	6,486	12,562	28,185	63,847	193,460	1,974	9,913	63,394	12,206
	Middle Atlantic....	213	94	11,348	48,630	9,939	18,983	39,193	80,149	212,880	1,582	13,567	78,063	16,008
	New York.....	122	32	4,164	17,854	3,699	6,866	14,835	31,706	88,428	534	4,370	29,246	4,819
	New Jersey.....	55	35	2,854	12,657	2,423	4,856	9,833	21,341	51,759	588	3,079	20,023	3,319
	Pennsylvania....	36	27	4,330	18,119	3,817	7,261	14,525	27,102	72,693	460	6,117	28,793	7,870
	East North Central	73	46	8,934	44,210	7,799	15,688	35,490	69,689	182,868	2,186	10,598	69,849	14,153
	Illinois.....	17	12	2,303	11,974	2,104	4,248	9,851	18,274	45,010	623	2,815	18,650	3,902
	Michigan.....	8	5	927	4,330	774	1,491	3,451	6,439	17,101	212	1,881	11,374	2,408
	Wisconsin.....	32	21	4,349	21,692	3,731	7,585	17,073	35,201	94,217	1,113	4,326	30,221	5,499
	West North Central	7	3	541	2,510	472	905	2,014	4,277	11,776	200	669	4,311	(D)
	South Atlantic....	25	21	3,455	13,030	3,007	5,786	10,548	22,455	57,397	602	4,046	20,032	(D)
	Delaware.....	6	6	1,489	6,329	1,195	2,289	4,821	10,482	24,555	208	1,704	10,841	2,667
	North Carolina..	3	3	340	1,063	296	537	844	1,723	5,360	173	696	2,079	1,203
	East South Central	10	7	917	3,291	831	1,565	2,707	6,491	20,698	165	973	7,274	670
	West South Central	5	1	133	438	124	372	372	738	1,275	(3)	144	538	168
	Texas.....	5	1	133	438	124	251	372	738	1,275	(3)	144	538	168
	Mountain.....	5	...	17	45	15	28	38	21	108	(D)	(2)	(2)	(2)
	Pacific.....	21	10	728	3,414	644	1,285	2,723	5,964	12,605	(D)	766	5,639	(D)
	California.....	16	9	674	3,222	599	1,198	2,569	5,528	11,862	401	727	5,419	693
3111 Pt. 02	Leather tanning and finishing "tanneries", total....	291	174	27,210	122,157	23,949	46,710	99,374	202,210	529,370	5,880	34,955	206,863	(NA)
	New England.....	81	45	6,136	27,995	5,408	10,668	23,020	46,565	122,225	1,257	8,272	47,326	(NA)
	New Hampshire....	8	6	984	4,096	865	1,696	3,418	6,212	17,576	111	(2)	(2)	(NA)
	Massachusetts....	63	32	4,425	20,975	3,889	7,647	17,145	35,095	89,635	968	6,718	38,319	(NA)
	Middle Atlantic....	111	57	8,011	34,263	7,085	13,495	27,871	58,107	155,280	1,287	10,811	61,474	(NA)
	New York.....	58	17	2,903	12,260	2,652	4,890	10,591	21,449	59,305	415	3,358	21,974	(NA)
	New Jersey.....	26	18	1,942	8,612	1,621	3,212	6,482	14,543	38,968	482	2,418	15,960	(NA)
	Pennsylvania....	27	22	3,166	13,391	2,812	5,393	10,798	22,115	57,007	390	5,034	23,539	(NA)
	North Central....	51	39	8,387	41,710	7,349	14,662	33,820	65,453	169,425	2,179	20,241	66,222	(NA)
	Ohio.....	9	5	1,101	5,244	981	1,953	4,388	8,257	22,100	210	(2)	(2)	(NA)
	Illinois.....	11	9	2,022	10,637	1,855	3,752	8,852	16,128	38,696	478	2,583	17,676	(NA)
	Wisconsin.....	18	14	3,582	18,156	3,078	6,190	14,458	29,329	77,061	1,054	3,541	23,515	(NA)
	South and West....	48	33	4,676	18,189	4,107	7,885	14,663	32,085	82,440	1,157	5,631	31,838	(NA)
	North Carolina..	3	3	340	1,063	296	537	844	1,723	5,360	173	696	2,079	(NA)
3111 Pt. 03	Leather tanning and finishing "converters", total....	73	8	817	5,153	333	665	1,429	17,965	124,714	233	849	19,161	(NA)
	New England.....	33	4	437	2,925	192	381	868	10,731	76,844	128	497	11,175	(NA)
	Middle Atlantic....	29	3	317	1,713	128	253	515	4,712	27,813	(3)	261	4,426	(NA)
	New York.....	23	...	154	828	49	100	191	3,016	18,138	(3)	203	3,338	(NA)
	All other divisions.....	11	1	63	515	13	31	46	2,522	20,057	(3)	91	3,560	(NA)
3111 Pt. 04	Leather tanning and finishing "contract tanneries", total....	214	98	9,103	38,235	8,184	16,001	32,380	55,621	89,040	1,792	7,663	38,240	(NA)
	New England.....	105	49	4,484	19,057	4,035	7,836	16,210	28,716	44,448	1,301	3,936	20,056	(NA)
	Middle Atlantic....	73	34	3,020	12,654	2,726	5,235	10,807	17,330	29,787	266	2,494	12,164	(NA)
	New York.....	41	15	1,107	4,766	998	1,876	4,053	7,241	10,985	115	808	3,932	(NA)
	All other divisions.....	36	15	1,599	6,524	1,423	2,930	5,363	9,575	14,805	225	1,233	6,020	(NA)
3121	Industrial leather belting, total....	104	32	3,975	18,689	2,769	5,371	11,506	36,300	66,560	1,233	4,576	34,911	5,032
	Northeast.....	47	12	1,011	4,176	749	1,377	2,818	7,893	15,253	180	1,284	7,716	1,869
	Pennsylvania....	8	3	198	838	152	263	602	1,739	3,390	(3)	(2)	(2)	(2)
	North Central....	23	10	2,087	10,043	1,499	3,008	6,515	20,665	37,475	755	2,116	18,874	1,967
	Michigan.....	5	4	503	2,994	356	705	1,849	4,579	9,261	138	737	6,292	223
	South Atlantic....	22	5	298	1,338	201	376	701	2,343	6,509	(3)	(2)	(2)	(2)
	West South Central	4	2	82	233	65	130	166	433	738	(3)	(2)	(2)	(2)
	Pacific.....	8	3	497	2,899	255	480	1,306	4,966	6,785	225	699	5,609	615
3131	Footwear cut stock, total.....	513	235	18,031	58,489	15,516	28,859	44,570	98,380	256,652	2,002	20,059	87,185	22,077
	New England.....	302	130	9,687	32,099	8,109	14,955	23,338	54,606	134,658	1,289	11,687	50,185	10,870
	New Hampshire....	36	15	1,138	3,589	994	1,790	2,830	5,834	17,459	(3)	1,602	6,283	1,777
	Massachusetts....	235	97	7,213	24,016	6,072	11,147	17,441	42,382	104,531	1,032	8,590	38,126	7,886
	Rhode Island....	5	4	326	1,057	182	393	601	1,518	2,580	(3)	284	1,375	163

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital ex- penditures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3131	Footwear cut stock--Continued													
	Middle Atlantic...	112	49	3,549	11,581	3,137	5,941	9,471	18,363	50,250	297	3,480	14,629	4,441
	New York.....	92	35	2,494	8,189	2,194	4,091	6,634	12,480	32,204	231	2,488	11,028	2,553
	East North Central	24	11	774	2,614	677	1,282	2,046	3,981	10,707	(3)	948	4,037	1,859
	Ohio.....	6	2	218	707	193	366	578	948	1,743	(3)	283	1,133	587
	Wisconsin.....	6	2	211	771	184	348	577	1,195	3,733	(D)	247	960	360
	West North Central	38	30	2,996	9,028	2,658	4,872	7,023	16,566	44,836	220	2,943	13,541	4,131
	South.....	20	11	823	2,388	755	1,424	2,117	3,796	13,904	(3)	878	4,128	617
	Virginia.....	4	2	152	412	139	243	354	580	1,300	(3)	137	457	142
	Tennessee.....	7	7	549	1,611	504	962	1,442	2,505	9,845	(3)	(2)	(2)	(2)
	Mountain.....	4	...	6	11	6	10	11	18	30	(2)	(2)	(2)	(2)
	Pacific.....	13	4	196	768	174	375	564	1,050	2,267	(3)	123	665	159
3141	Footwear, except rubber, total.....	1,115	887	215,311	662,421	194,314	348,481	542,179	1,086,260	2,048,857	14,444	219,375	940,704	230,882
	New England.....	348	306	76,158	247,146	68,279	121,051	197,577	367,640	704,680	4,469	77,543	312,407	75,165
	Massachusetts...	202	179	38,689	129,867	34,555	60,350	102,613	196,133	366,400	2,554	41,069	168,367	44,254
	Connecticut.....	13	12	1,570	4,892	1,445	2,539	4,019	6,670	12,364	(3)	1,362	4,726	255
	Middle Atlantic...	322	251	44,503	138,404	40,373	75,152	116,569	204,628	404,669	4,144	43,863	177,608	47,017
	New York.....	182	123	20,843	70,024	18,684	33,665	58,528	101,104	200,008	2,003	23,129	99,789	29,874
	New Jersey.....	13	10	822	2,746	729	1,489	2,215	3,967	8,248	(3)	927	4,244	1,136
	Pennsylvania....	127	118	22,838	65,634	20,960	39,998	55,826	99,557	196,413	2,067	19,807	73,575	16,007
	East North Central	133	104	33,929	110,377	30,199	53,819	87,659	194,523	353,133	2,101	38,333	183,250	46,087
	Indiana.....	8	6	1,950	6,468	1,842	3,650	5,824	12,870	22,715	226	1,579	8,865	1,864
	Illinois.....	42	33	12,889	37,425	11,813	20,051	31,718	74,045	132,198	628	15,333	76,850	19,031
	Wisconsin.....	53	43	9,914	34,293	8,339	15,199	24,733	57,248	111,932	541	(2)	(2)	(2)
	West North Central	107	94	29,387	81,847	26,776	46,056	68,254	159,663	282,400	965	31,596	147,419	36,986
	Minnesota.....	9	7	1,057	4,012	852	1,555	2,496	6,717	11,949	(D)	928	4,588	934
	Missouri.....	89	83	27,970	76,890	25,624	43,896	65,060	151,373	267,623	866	30,282	141,520	35,248
	South.....	135	101	28,369	74,189	26,066	47,498	63,747	143,729	273,500	(D)	25,228	106,620	22,960
	West.....	70	31	2,965	10,458	2,621	4,905	8,373	16,077	30,475	(D)	2,812	13,400	2,667
3142	House slippers, total.....	164	97	11,520	37,057	10,168	18,046	28,291	59,656	112,145	590	10,879	45,050	9,433
	New England.....	32	19	2,887	8,604	2,622	4,406	6,836	15,181	26,904	(3)	2,651	9,930	2,583
	Massachusetts...	22	15	2,382	6,800	2,194	3,572	5,522	12,486	21,578	(3)	2,169	7,903	2,224
	Middle Atlantic...	101	59	6,165	20,901	5,434	9,823	16,040	32,831	63,252	326	5,822	25,606	5,180
	New York.....	82	45	4,476	14,882	3,883	6,871	11,373	24,377	45,132	200	4,531	19,697	3,869
	New Jersey.....	7	5	888	3,872	813	1,528	2,876	4,729	9,963	(3)	750	3,820	548
	Pennsylvania....	12	9	801	2,147	738	1,424	1,791	3,725	8,157	(3)	541	2,089	763
	East North Central	12	6	783	2,297	683	1,188	1,600	3,359	6,866	(3)	635	2,225	876
	Illinois.....	5	2	193	683	165	279	425	752	1,607	(D)	270	772	234
	West North Central	7	6	941	2,682	812	1,560	2,055	4,400	8,371	(3)	448	1,819	277
	Missouri.....	4	4	809	2,356	693	1,350	1,772	3,958	7,550	(3)	448	1,819	(D)
	South.....	9	7	708	2,441	586	1,015	1,654	3,621	6,301	(D)	1,245	5,098	369
	Texas.....	3	2	103	237	95	129	212	307	658	(3)	(2)	(2)	(2)
	Pacific.....	3	...	36	132	31	54	106	264	451	(D)	(2)	(2)	(2)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3111, Leather tanning and finishing: New England—Vermont, 2 (100-249); Connecticut, 6 (100-249); East North Central—Ohio, 13 (1,129); Indiana, 3 (100-249); West North Central—Minnesota, 2 (250-499); Missouri, 4 (100-249); South Dakota, 1 (1-19); South Atlantic—Maryland, 1 (100-249); Virginia, 6 (500-999); West Virginia, 4 (250-499); South Carolina, 2 (1-19); Georgia, 1 (250-499); Florida, 2 (20-99); East South Central—Kentucky, 2 (100-249); Tennessee, 7 (500-999); Mississippi, 1 (1-19); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); Colorado, 2 (1-19); Utah, 1 (1-19); Pacific—Washington, 3 (1-19); Oregon, 2 (20-99).

SIC 3111-02, Leather tanning and finishing, "tanneries": New England—Maine, 4 (250-499); Vermont, 2 (100-249); Connecticut, 4 (100-249); North Central—Indiana, 3 (100-249); Michigan, 7 (500-999); Minnesota, 1 (250-499); Pennsylvania, 1 (20-99); East North Central—Illinois, 1 (20-99); Wisconsin, 6 (20-99); West North Central—Missouri, 2 (1-19); South Atlantic—South Carolina, 1 (1-19); East South Central—Tennessee, 1 (1-19).

SIC 3111-04, Industrial leather tanning and finishing, "contract tanneries": New England—Maine, 7 (1,015); New Hampshire, 7 (500-999); Massachusetts, 90 (2,500-4,999); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 26 (500-999); Pennsylvania, 6 (1,075); East North Central—Ohio, 4 (20-99); Illinois, 5 (250-499); Michigan, 1 (1-19); Wisconsin, 8 (500-999); West North Central—Minnesota, 1 (1-19); South Dakota, 1 (1-19); South Atlantic—Delaware, 2 (250-499); Virginia, 2 (20-99); East South Central—Tennessee, 2 (20-99); Mississippi, 1 (1-19); West South Central—Texas, 3 (100-249); Mountain—Idaho, 1 (1-19); Utah, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 3 (1-19).

SIC 3121, Industrial leather belting: Northeast—Maine, 1 (20-99); New Hampshire, 1 (100-249); Massachusetts, 15 (250-499); Rhode Island, 3 (1-19); Connecticut, 3 (20-99); New York, 13 (20-99); New Jersey, 3 (100-249); North Central—Ohio, 3 (250-499); Illinois, 8 (500-999); Wisconsin, 3 (100-249); Minnesota, 1 (1-19); Missouri, 3 (20-99); South Atlantic—Delaware, 2 (20-99); Maryland, 1 (1-19); Virginia, 1 (1-19); North Carolina, 10 (20-99); South Carolina, 4 (20-99); Georgia, 4 (20-99); Florida, 4 (20-99); West South Central—Louisiana, 1 (20-99); Texas, 3 (20-99); Pacific—Washington, 1 (1-19); California, 7 (250-499).



Footnotes for Table 2—31A

SIC 3131, Footwear cut stock: New England—Maine, 23 (500-999); Vermont, 1 (20-99); Connecticut, 2 (100-249); Middle Atlantic—New Jersey, 2 (20-99); Pennsylvania, 18 (1,028); East North Central—Indiana, 1 (20-99); Illinois, 10 (100-249); Michigan, 1 (20-99); West North Central—Iowa, 1 (1-19); Missouri, 37 (2,988); South—Maryland, 1 (1-19); North Carolina, 4 (20-99); Kentucky, 2 (20-99); Texas, 1 (1-19); Mountain—Colorado, 1 (1-19); New Mexico, 2 (1-19); Arizona, 1 (1-19); Pacific—Oregon, 1 (1-19); California, 12 (100-249).

SIC 3141, Footwear, except rubber: New England—Maine, 73 (19,213); New Hampshire, 59 (5,000 and over); Rhode Island, 1 (100-249); East North Central—Ohio, 23 (5,000 and over); Michigan, 7 (500-999); West North Central—Iowa, 2 (100-249); Nebraska, 3 (100-249); Kansas, 4 (100-249); South—Delaware, 1 (1-19); Maryland, 11 (1,000-2,499); Virginia, 9 (3,716); West Virginia, 1 (250-499); North Carolina, 3 (250-499); Georgia, 9 (2,500-4,999); Florida, 6 (250-499); Kentucky, 6 (1,937); Tennessee, 36 (5,000 and over); Alabama, 3 (500-999); Mississippi, 4 (1,000-2,499); Arkansas, 10 (2,500-4,999); Texas, 36 (1000-2499); West—New Mexico, 4 (20-99); Arizona, 4 (20-99); Washington, 4 (20-99); Oregon, 5 (20-99); California, 53 (2,500-4,999).

SIC 3142, House slippers: New England—Maine, 4 (20-99); New Hampshire, 1 (250-499); Vermont, 2 (1-19); Rhode Island, 1 (20-99); Connecticut, 2 (100-249); East North Central—Ohio, 2 (250-499); Indiana, 1 (20-99); Michigan, 1 (20-99); Wisconsin, 3 (20-99); West North Central—Minnesota, 1 (20-99); Iowa, 1 (20-99); Kansas, 1 (1-19); South—Maryland, 1 (100-249); North Carolina, 1 (250-499); Georgia, 2 (20-99); Tennessee, 1 (20-99); Arkansas, 1 (1-19); Pacific—Oregon, 1 (1-19); California, 2 (20-99).

<sup>2</sup>This State or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>3</sup>Less than \$100 thousand.

<sup>4</sup>Represents value of production.

Table 3.—Detailed Statistics for the United States: 1958

Item	Leather tanning and finishing				Industrial leather belting (SIC 3121)	Footwear cut stock (SIC 3131)	Footwear except rubber (SIC 3141)	House slippers (SIC 3142)
	Total (SIC 3111)	Tanneries (SIC 3111-02)	Converters (SIC 3111-03)	Contract tanneries (SIC 3111-04)				
Primary product specialization ratio <sup>1</sup> .....	100	(NA)	(NA)	(NA)	90	95	99	90
Coverage ratio <sup>2</sup> .....	100	(NA)	(NA)	(NA)	92	95	99	85
Number of establishments, total.....	578	291	73	214	104	513	1,115	164
With 1-19 employees.....	298	117	65	116	72	278	228	67
With 20-99 employees.....	170	87	7	76	22	192	240	62
With 100 employees or more.....	110	87	1	22	10	43	647	35
Proprietors and working partners...Number..	198	78	11	109	36	235	224	52
All employees:								
Number (average for the year).....	37,130	27,210	817	9,103	3,975	18,031	215,311	11,520
Payroll.....\$1,000..	165,545	122,157	5,153	38,235	18,689	58,489	662,421	37,057
Production workers:								
Number (average for the year).....	32,466	23,949	333	8,184	2,769	15,516	194,314	10,168
March.....	32,323	(NA)	(NA)	(NA)	2,944	15,727	197,190	9,286
May.....	31,960	(NA)	(NA)	(NA)	2,475	15,032	189,340	9,875
August.....	32,544	(NA)	(NA)	(NA)	2,739	15,404	195,091	10,655
November.....	33,037	(NA)	(NA)	(NA)	2,918	15,901	195,635	10,856
Man-hours.....1,000..	63,376	46,710	665	16,001	5,371	28,859	348,481	18,046
January-March.....do....	15,837	(NA)	(NA)	(NA)	1,468	7,362	90,905	3,704
April-June.....do....	15,635	(NA)	(NA)	(NA)	1,215	7,094	82,178	4,621
July-September.....do....	15,280	(NA)	(NA)	(NA)	1,247	6,885	85,403	4,766
October-December.....do....	16,624	(NA)	(NA)	(NA)	1,441	7,518	89,995	4,955
Wages.....\$1,000..	133,183	99,374	1,429	32,380	11,506	44,570	542,179	28,291
Cost of materials, etc., total.....do....	464,933	325,025	106,363	33,545	30,435	158,637	964,289	52,552
Materials, parts, containers, and supplies consumed.....do....	386,670	302,734	54,404	29,532	26,211	143,409	927,138	50,216
Cost of resales.....do....	9,062	6,278	2,764	20	3,498	11,075	15,618	836
Fuels consumed.....do....	9,221	7,155	28	2,038	202	563	2,718	173
Electricity purchased.....do....	4,730	3,380	271	1,079	263	1,116	6,059	341
Contract work.....do....	55,250	5,478	48,896	876	261	2,474	12,756	986
Value of shipments (including resales), total.....do....	743,124	529,370	124,714	89,040	66,560	256,652	<sup>3</sup> 2,048,857	<sup>3</sup> 112,145
Value of resales.....do....	9,734	6,653	3,056	25	4,783	13,410	21,942	1,125
Value added by manufacture, adjusted.do....	275,796	202,210	17,965	55,621	36,300	98,380	1,086,260	59,656
Manufacturers' inventories:								
Beginning of year, total.....do....	149,719	121,001	19,523	9,195	13,294	25,323	242,981	10,725
Finished products.....do....	50,921	40,407	9,429	1,085	5,993	9,419	87,197	4,136
Work-in-process.....do....	58,822	49,790	5,703	3,329	4,567	4,496	47,550	1,532
Materials, supplies, fuel, etc.....do....	39,976	30,804	4,391	4,781	2,734	11,408	108,234	5,057
End of year, total.....do....	149,344	119,972	19,849	9,523	13,064	26,248	246,765	10,530
Finished products.....do....	47,041	37,233	8,908	900	6,217	9,287	88,217	4,058
Work-in-process.....do....	60,307	50,811	5,855	3,641	4,518	4,993	49,242	1,595
Materials, supplies, fuel, etc.....do....	41,996	31,928	5,086	4,982	2,329	11,968	109,306	4,877
Expenditures for plant and equipment, total.....do....	8,500	6,277	251	1,972	1,286	2,321	17,003	721
New, total.....do....	7,905	5,880	233	1,792	1,233	2,002	14,444	590
New structures and additions to plant.....do....	1,727	(NA)	(NA)	(NA)	154	563	3,243	103
New machinery and equipment.....do....	6,178	(NA)	(NA)	(NA)	1,079	1,439	11,201	487
Used plant and equipment.....do....	595	(NA)	(NA)	(NA)	53	319	2,559	131

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

NA Not available.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.) Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Represents value of production.



Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	
3111	Leather tanning and finishing:											
	Number of establishments.....	578	141	75	82	102	68	76	26	7	1	...
	All employees:											
	Number.....	37,130	304	485	1,134	3,231	4,980	11,709	9,287	<u>6,000</u>	(D)	...
	Payroll.....\$1,000..	165,545	1,322	2,160	5,021	13,653	21,471	50,663	42,622	<u>28,633</u>	(D)	...
	Value added, adjusted..do..	275,796	4,766	6,814	11,706	25,078	35,811	81,249	66,564	<u>43,808</u>	(D)	...
	Value of shipments.....do...	743,124	21,799	29,303	54,381	63,543	77,632	222,437	165,979	<u>108,050</u>	(D)	...
	Capital expend., new...do....	7,905	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	590	1,380	2,000	1,731	<u>1,511</u>	(D)	...
3111-02	Tanneries:											
	Number of establishments...	291	57	24	36	43	44	58	22	6	1	...
	All employees:											
	Number.....	27,210	119	156	510	1,402	3,098	9,022	<u>12,903</u>	(D)	(D)	...
	Payroll.....\$1,000..	122,157	399	618	2,125	5,752	13,554	38,635	<u>61,074</u>	(D)	(D)	...
	Value added, adjusted..do..	202,210	1,166	1,984	3,934	10,520	23,972	62,959	<u>97,675</u>	(D)	(D)	...
	Value of shipments.....do...	529,370	3,427	4,195	10,199	25,237	57,271	178,689	<u>250,352</u>	(D)	(D)	...
	Capital expend., new...do....	5,880	( <sup>1</sup> )	( <sup>1</sup> )	266	( <sup>1</sup> )	1,004	1,271	<u>3,009</u>	(D)	(D)	...
3111-03	Converters:											
	Number of establishments...	73	28	21	16	6	1	1	...	...	...	...
	All employees:											
	Number.....	817	65	129	207	416	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	5,153	453	759	1,249	2,692	(D)	(D)	...	...	...	...
	Value added, adjusted..do..	17,965	2,417	3,144	4,663	<u>7,741</u>	(D)	(D)	...	...	...	...
	Value of shipments.....do...	124,714	16,009	22,640	39,946	<u>46,119</u>	(D)	(D)	...	...	...	...
	Capital expend., new...do....	233	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	...	...	...	...
3111-04	Contract tanneries:											
	Number of establishments...	214	56	30	30	53	23	17	4	1	...	...
	All employees:											
	Number.....	9,103	120	200	417	<u>8,366</u>	(D)	(D)	(D)	(D)	...	...
	Payroll.....\$1,000..	38,235	470	783	1,647	<u>35,335</u>	(D)	(D)	(D)	(D)	...	...
	Value added, adjusted..do..	55,621	1,183	1,686	3,109	<u>49,643</u>	(D)	(D)	(D)	(D)	...	...
	Value of shipments.....do...	89,040	2,363	2,468	4,236	<u>79,973</u>	(D)	(D)	(D)	(D)	...	...
	Capital expend., new...do....	1,792	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	<u>1,573</u>	(D)	(D)	( <sup>1</sup> )	(D)	...	...
3121	Industrial leather belting:											
	Number of establishments.....	104	35	23	14	16	6	6	3	1	...	...
	All employees:											
	Number.....	3,975	84	152	183	471	393	<u>2,692</u>	(D)	(D)	...	...
	Payroll.....\$1,000..	18,689	296	697	724	1,978	1,662	<u>13,332</u>	(D)	(D)	...	...
	Value added, adjusted..do..	36,300	641	1,067	1,198	3,087	3,094	<u>27,213</u>	(D)	(D)	...	...
	Value of shipments.....do...	66,560	1,552	2,786	2,558	6,336	6,240	<u>47,088</u>	(D)	(D)	...	...
	Capital expend., new...do....	1,233	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	<u>924</u>	(D)	(D)	...	...
3131	Footwear cut stock:											
	Number of establishments.....	513	112	75	91	118	74	40	3	...	...	...
	All employees:											
	Number.....	18,031	246	534	1,276	3,907	5,301	6,005	762	...	...	...
	Payroll.....\$1,000..	58,489	790	1,766	4,119	13,625	17,750	18,409	2,030	...	...	...
	Value added, adjusted..do..	98,380	1,856	3,957	7,276	21,476	28,227	31,798	3,790	...	...	...
	Value of shipments.....do...	256,652	4,764	9,556	20,363	58,205	67,228	87,919	8,617	...	...	...
	Capital expend., new...do....	2,002	( <sup>1</sup> )	( <sup>1</sup> )	276	623	437	438	( <sup>1</sup> )	...	...	...
3141	Footwear, except rubber:											
	Number of establishments.....	1,115	106	51	71	122	118	282	296	63	5	1
	All employees:											
	Number.....	215,311	217	333	1,044	3,987	8,479	46,470	103,852	41,083	<u>9,846</u>	(D)
	Payroll.....\$1,000..	662,421	638	961	2,661	12,618	26,994	141,832	310,397	128,957	<u>37,363</u>	(D)
	Value added, adjusted..do..	1,086,260	1,408	2,118	4,317	20,056	40,986	224,403	535,251	199,069	<u>58,652</u>	(D)
	Value of production.....do...	2,048,857	2,610	3,872	8,079	40,956	77,414	423,199	999,947	391,517	<u>101,263</u>	(D)
	Capital expend., new...do....	14,444	<u>295</u>	(D)	292	965	1,235	3,350	5,893	1,960	<u>454</u>	(D)
3142	House slippers:											
	Number of establishments.....	164	25	11	31	27	35	24	10	1	...	...
	All employees:											
	Number.....	11,520	49	69	449	856	2,418	3,768	<u>3,911</u>	(D)	...	...
	Payroll.....\$1,000..	37,057	93	171	1,240	2,638	7,771	11,515	<u>13,629</u>	(D)	...	...
	Value added, adjusted..do..	59,656	211	229	1,918	4,107	11,885	18,477	<u>22,829</u>	(D)	...	...
	Value of production.....do...	112,145	409	478	4,461	7,589	22,810	35,018	<u>41,380</u>	(D)	...	...
	Capital expend., new...do....	590	( <sup>1</sup> )	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	...

<sup>1</sup>Less than \$250 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3111	Leather tanning and finishing..1958..	743,124	631,488	2,484	109,152	100	634,227	631,488	2,739	100
	1954..	713,324	616,040	12,111	85,173	98	618,177	616,040	2,137	100
3121	Industrial leather belting....1958..	66,560	55,242	6,070	5,248	90	60,111	55,242	4,869	92
	1954..	67,102	60,018	1,562	5,522	97	64,868	60,018	4,850	92
3131	Footwear cut stock.....1958..	256,652	227,515	11,133	18,004	95	239,043	227,515	11,528	95
	1954..	259,732	233,995	7,539	18,198	97	242,852	233,995	8,857	96
3141	Footwear except rubber.....1958 <sup>3</sup>	2,048,857	1,993,468	20,006	35,383	99	2,013,126	1,993,468	19,658	99
	1954..	1,809,127	1,764,932	14,644	29,551	99	1,779,134	1,764,932	14,202	99
3142	House slippers.....1958 <sup>3</sup>	112,145	98,781	11,293	2,071	90	115,700	98,781	16,919	85
	1954..	90,760	80,476	9,536	748	89	92,241	80,476	11,765	87

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>For 1958 represents value of production rather than value of shipments.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Leather tanning and finishing industry	Leather tanning and finishing (SIC 3111)	Other industries	All industries
	Total value of shipments.....	743,124	xxx	xxx
	Primary products.....	631,488	2,739	634,227
31111	Finished cattle hide and kip side leathers.....	408,971	2,373	411,344
31112	Finished calf and whole kip leathers.....	62,643	...	62,643
31113	Finished sheep and lamb leathers.....	56,726	...	56,726
31114	Other finished leathers.....	69,156	...	69,156
31115	Rough, russet, and crust leathers.....	26,726	...	26,726
31110	Leather finishing and tanning, nsk.....	7,266	366	7,632
	Secondary products.....	2,484	xxx	xxx
	Miscellaneous receipts.....	109,152	xxx	xxx
31119	Contract receipts for tanning or finishing leather.....	83,855	xxx	xxx
93000	Other contract receipts.....	6,520	xxx	xxx
	Resales.....	9,734	xxx	xxx
	Other miscellaneous receipts.....	9,043	xxx	xxx



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Industrial leather belting industry	Industrial leather belting (SIC 3121)	Other industries		All Industries	
31210	Total value of shipments.....	66,560	xxx		xxx	
	Industrial leather belting and packing.....	55,242	4,869		60,111	
	Secondary products.....	6,070	xxx		xxx	
	Mechanical rubber goods, nec.....	4,709	xxx		xxx	
	Other secondary products.....	1,361	xxx		xxx	
	Miscellaneous receipts.....	5,248	xxx		xxx	
	Resales.....	4,783	xxx		xxx	
	Other miscellaneous receipts.....	465	xxx		xxx	
Prod. class code	Footwear cut stock industry	Footwear cut stock (SIC 3131)	Plastic products (SIC 3079)	Footwear, except rubber (SIC 3141)	Other industries	All industries
31310	Total value of shipments.....	256,652	xxx	xxx	xxx	xxx
	Boot and shoe cut stock and findings.....	227,515	2,089	2,037	7,402	239,043
	Secondary products.....	11,133	xxx	xxx	xxx	xxx
	Leather tanning and finishing.....	2,094	xxx	xxx	xxx	xxx
	Rubber heels and soles.....	3,963	xxx	xxx	xxx	xxx
	Other secondary products.....	5,076	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	18,004	xxx	xxx	xxx	xxx
	Resales.....	13,410	xxx	xxx	xxx	xxx
30696	Contract and commission receipts.....	2,657	xxx	xxx	xxx	xxx
	Other miscellaneous receipts.....	1,937	xxx	xxx	xxx	xxx
Prod. class code	Footwear, except rubber industry	Footwear, except rubber (SIC 3141)	House slippers industry (SIC 3142)	Other industries	All industries	
31411 31412 31413 31414 31415 31416 31417	Total value of production.....	2,048,857	xxx		xxx	
	Footwear, except rubber, total.....	1,993,468	9,303		10,355	
	Men's dress shoes, including play shoes.....	466,127	3,913		2,429	
	Men's work shoes.....	146,569	291		...	
	Youths' and boys' shoes.....	81,470	...		304	
	Women's dress, work, and play shoes.....	987,675	4,519		4,208	
	Misses' and children's shoes.....	191,341	152		763	
	Infants' and babies' shoes.....	76,092	89		...	
	All other footwear.....	44,194	339		2,651	
	Secondary products.....	20,006	xxx		xxx	
	Footwear cut stock and findings.....	2,037	xxx		xxx	
	House slippers.....	16,465	xxx		xxx	
	Other secondary products.....	1,504	xxx		xxx	
	Miscellaneous receipts.....	35,383	xxx		xxx	
	Resales.....	21,942	xxx		xxx	
	Other miscellaneous receipts.....	13,441	xxx		xxx	
	Prod. class code	House slippers industry	House slippers (SIC 3142)	Footwear, except rubber (SIC 3141)	Other industries	All industries
31420	Total value of production.....	112,145	xxx		xxx	
	House slippers.....	98,781	16,465		454	
	Secondary products, total.....	11,293	xxx		xxx	
	Men's dress shoes, including play shoes.....	3,913	xxx		xxx	
	Women's dress, work, and play shoes.....	4,519	xxx		xxx	
	Other secondary products.....	2,861	xxx		xxx	
	Miscellaneous receipts, including resales.....	2,071	xxx		xxx	

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3111---	Tanned, curried, and finished leather, total <sup>1</sup> .....	.....	xxx	634,227	xxx	618,177
31111--	Cattle hide and kip side finished leathers.....	.....	xxx	411,344	xxx	383,080
	Grains, except offal and wetting leather (heads, shoulders, bellies, etc.):					
	Sole leather:					
3111111	Vegetable tanned (backs, bends, and sides).....	1,000 lbs....	109,991	48,424	114,595	56,272
3111113	Chrome or retan (backs, bends, and sides).....	1,000 sq. ft.	17,010	6,509	16,744	8,350
3111124	Belting and mechanical leather.....	1,000 lbs....	6,020	5,190	6,946	6,947
3111132	Harness, collar, skirting, lace and latigo leather (sides).....	.....do.....	4,109	3,327	5,466	3,900
3111133	Bag, case and strap leather (sides).....	1,000 sq. ft.	41,563	17,633	32,232	13,641
3111135	Upholstery leather (top grains and machine buffs (hides).....	.....do.....	35,097	14,957	34,340	18,971
3111137	Upper leather, excluding patent (sides).....	.....do.....	551,488	205,465	538,326	186,879
3111141	Patent leather (sides).....	.....do.....	61,226	23,822	31,746	10,404
3111143	Lining leather (sides).....	.....do.....	11,878	3,559	15,202	4,447
3111145	Garment leather (sides).....	.....do.....	21,011	6,478	13,444	4,204
3111149	Other grains, including flat and handbag (except wetting leather).....	.....do.....	15,016	5,423	22,107	7,152
	Offal (heads, shoulders, bellies, etc.) except splits and wetting leather:					
	Sole leather:					
3111151	Vegetable tanned.....	1,000 lbs....	50,578	15,133	57,906	18,490
3111153	Chrome or retan.....	1,000 sq. ft.	3,204	1,108	4,539	1,627
3111157	Waist belt leather.....	1,000 lbs....	5,072	4,221	5,900	4,625
3111159	Other offal, except wetting leather.....	.....do.....	11,593	3,620	(NA)	4,611
3111160	Wetting leather grains and offal.....	1,000 lbs....	4,203	1,320	9,669	3,954
	Finished splits (including shoulder splits, deep buffs, buffing and fleshers):					
3111161	Bottom stock.....	1,000 sq. ft.	22,315	4,997	22,187	4,540
3111163	Upper.....	.....do.....	49,933	12,790	34,993	8,724
3111165	Lining.....	.....do.....	76,105	15,048	54,251	9,277
3111167	Glove.....	.....do.....	17,998	4,176	31,266	6,065
3111168	Upholstery, including deep buffs.....	.....do.....	4,927	1,483		
3111169	Other.....	.....do.....	18,507	3,262		
3111100	Cattle hide and kip side finished leathers, nsk.....	.....do.....	10,446	3,399	xxx	...
3111200	Calf and whole kip finished leathers.....	1,000 sq. ft.	83,612	62,643	92,604	63,599
31113--	Sheep and lamb finished leathers.....	.....do.....	228,263	56,726	236,448	62,156
	Sheep and lamb leathers:					
3111312	Shoe.....	.....do.....	56,915	13,747	65,519	14,433
3111317	Glove.....	.....do.....	10,004	2,146	13,246	3,001
3111331	Garment.....	.....do.....	87,242	22,226	76,017	20,639
3111333	Fleshers.....	.....do.....	19,450	4,010	9,379	2,688
3111335	Skivers.....	.....do.....	22,718	4,286	21,636	4,036
3111339	Other.....	.....do.....	18,290	4,602	33,800	10,326
3111351	Shearlings.....	.....do.....	13,644	5,709	16,851	7,033
31114--	Other finished leathers.....	.....do.....	xxx	69,156	xxx	85,408
	Goats and kid leathers:					
3111411	Upper.....	1,000 sq. ft.	69,941	35,119	89,654	44,703
3111413	Lining.....	.....do.....	21,845	7,629	23,339	8,240
3111419	Other.....	.....do.....	1,692	691	4,629	1,790
3111420	All cabretta leathers.....	.....do.....	12,409	5,365	11,505	4,392
	Horse, colt, mule, ass and pony leathers:					
3111431	Upper.....	.....do.....	5,535	3,350	9,012	5,011
3111439	Other.....	.....do.....	12,625	6,257	41,460	11,350
3111451	Pig and hog leathers, including peccary, carpincho, bacon rind and strips, etc.....	.....do.....	10,404	3,373	11,823	3,451
3111459	Other animals.....	.....do.....	13,758	6,335	13,605	6,471
3111400	Other finished leathers, nsk.....	.....do.....	2,256	1,037	xxx	xxx
31115--	Rough, russet and crust leather (not finished in the reporting establishment).....	.....do.....	xxx	26,726	xxx	23,934
3111510	Grains, except offal.....	.....do.....	xxx	9,789	xxx	23,934
3111530	Offal (heads, shoulders, bellies, etc.).....	.....do.....	xxx	1,665		
3111551	Splits (including shoulder splits, deep buffs, buffing and fleshers).....	.....do.....	xxx	15,272		
3111000	Finished and rough leathers, nsk.....	.....do.....	xxx	7,632	xxx	...
3121---	Industrial leather products, total.....	.....do.....	xxx	60,111	xxx	64,868
	Industrial leather belting.....	.....do.....	xxx	9,711	xxx	10,010
3121011	Flat.....	.....do.....	xxx	5,136	xxx	6,652
3121051	Other.....	.....do.....	xxx	2,879	xxx	1,469
3121010	Industrial leather belting, nsk.....	.....do.....	xxx	1,696	xxx	1,889
	Leather packings, oil and grease retainers.....	.....do.....	xxx	41,565	xxx	46,374
3121061	Leather packings.....	.....do.....	xxx	8,022	xxx	8,948
3121071	Leather oil and grease retainers (including seals).....	.....do.....	xxx	33,543	xxx	37,426
3121098	Other industrial products made wholly or partly of leather, including textile leathers.....	.....do.....	xxx	8,835	xxx	8,484

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product Code	Product	Unit of measure	1958				1954			
			Total shipments including interplant transfers		Transfers to other plants of the same company		Total production		Total shipments including interplant transfers	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3131---	Footwear cut stock and findings, total <sup>2</sup> .....		xxx	239,043	xxx	xxx	xxx	xxx	xxx	xxx
	Boot and shoe cut stock:									
	Outsoles:									
3131011	Leather.....	1,000 doz. prs..	9,484	44,797	3,099	18,650	10,312	51,726	10,312	51,726
3131012	Other, except rubber elastomer resin and plastic.....	..do.....								
3131016	Midsoles.....	..do.....	859	2,246	724	1,275	2,571	5,861	2,571	5,861
	Innersoles:									
3131017	Leather.....	..do.....	5,531	15,296	2,441	7,615	9,128	24,419	9,128	24,419
3131018	Other <sup>2</sup> .....	..do.....	12,729	9,332	791	1,179	2,556	4,393	2,556	4,393
	Heels:									
3131021	Leather.....	..do.....	4,383	6,657	622	837	4,777	5,534	4,777	5,534
3131025	Other, except wood, rubber, elastomer resin and plastic..	..do.....	5,502	6,342	(D)	(D)	5,248	5,235	5,248	5,235
3131026	Heel lifts and top lifts <sup>2</sup> .....	..do.....	6,549	2,458	2,142	913	(NA)	5,274	(NA)	5,274
	Counters:									
3131027	Leather.....	..do.....	1,320	1,791	335	488	4,772	4,619	4,772	4,619
3131028	Other <sup>2</sup> .....	..do.....	22,475	9,972	3,653	1,102	16,345	7,866	16,345	7,866
3131041	Box toes.....	..do.....	21,217	7,872	5,411	1,939	19,574	7,068	19,574	7,068
3131045	Taps.....	..do.....	1,192	4,490	43	51	1,061	4,008	1,061	4,008
3131046	Uppers (vamps, quarters, tips, tongues, etc.).....	..do.....	xxx	3,305	xxx	(D)	xxx	2,659	xxx	2,659
	Other cut stock:									
3131047	Leather.....	..do.....	xxx	6,129	xxx	623	xxx	5,349	xxx	5,349
3131049	Other <sup>2</sup> .....	..do.....	xxx	6,102	xxx	2,552	xxx	4,840	xxx	4,840
3131048	Boot and shoe cut stock, nsk.....	..do.....	xxx	6,015	xxx	...	xxx	6,257	xxx	6,257
	Other boot and shoe findings:									
3131061	Platforms.....	1,000 doz. prs..	1,660	2,017	(D)	(D)	1,478	1,936	(D)	(D)
3131063	Wood heel blocks, made for sale as such.....	..do.....	4,828	9,998	(D)	(D)	8,828	12,315	(D)	(D)
	Finished wood heels:									
3131065	Manufactured complete in the reporting plant.....	..do.....	2,072	7,763	(D)	(D)	4,416	11,136	(D)	(D)
3131066	Finished from purchased blocks.....	..do.....	3,821	15,824	1,296	5,275	5,815	17,445	1,296	5,275
3131067	Shanks.....	..do.....	19,515	5,922	(D)	(D)	21,999	6,393	(D)	(D)
3131068	Welting (equivalent 1.2 inch wide).....	1,000 linear yds	140,676	12,324	(NA)	1,479	166,399	13,869	(NA)	1,479
3131069	Other findings.....	..do.....	xxx	34,230	xxx	1,167	xxx	29,696	xxx	1,167
3131060	Boot and shoe findings, nsk.....	..do.....	xxx	4,995	xxx	...	xxx	4,894	xxx	...
3131000	Footwear cut stock, nsk.....	..do.....	xxx	13,166	xxx	...	...	...	xxx	...
			1958				1954			
			Total production		Total production (quantity)		Total shipments including interplant transfers		Total shipments including interplant transfers	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3141---	Footwear, except rubber, total.....	1,000 prs.....	3524,276	2,012,126	473,463	473,355	1,779,134			
31411--	Men's dress shoes, including playshoes.....	..do.....	77,616	472,469	74,690	72,972	438,608			
	Men's dress, including moccasin-type dress shoes, (sizes 5 and over).....	..do.....	75,959	469,969	71,104	69,442	431,616			
3141112	Welted, including silhouwelt.....	..do.....	58,321	394,914	61,570	xxx	xxx			
3141113	McKay, including littleway.....	..do.....	7,538	28,493	4,683	xxx	xxx			
3141114	Slip-lasting.....	..do.....	328	2,167						
3141115	Cement, excluding slip-lasting.....	..do.....	4,810	23,426	4,212	xxx	xxx			
3141119	Other constructions.....	..do.....	4,962	20,969						
	Construction, nsk.....	..do.....	...	...	639	xxx	xxx			
3141159	Men's playshoes.....	..do.....	1,657	2,500	3,586	3,530	6,992			
31412--	Men's work shoes.....	..do.....	24,916	146,860	421,409	421,257	4109,993			
	Men's work, including moccasin oxford-type less than 6" high (sizes 5 and over).....	..do.....	8,871	53,345	421,409	421,257	4109,993			
3141222	Welted, including silhouwelt.....	..do.....	7,615	49,995	415,729	xxx	xxx			
3141213	McKay, including littleway.....	..do.....	683	1,449	43,003	xxx	xxx			
3141216	Wood or metal fastened.....	..do.....			41,854	xxx	xxx			
3141218	Vulcanized.....	..do.....								
3141219	Other constructions.....	..do.....	5573	51,901	4724	xxx	xxx			
	Construction, nsk.....	..do.....	...	...	499	xxx	xxx			
	Men's work, including moccasin oxford-type, 6" high and over (sizes 5 and over).....	..do.....	16,045	93,515	(4)	(4)	(4)			

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958		1954		
			Total production		Total production (quantity)	Total shipments including inter-plant transfers	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3141--	Footwear, except rubber--Continued						
31412--	Men's work shoes--Continued						
	Men's work, including moccasin oxford-type, 6" high and over (sizes 5 and over)--Continued						
3141222	Welted, including silhouwelt.....	1,000 prs...	13,208	81,503	(4)	xxx	xxx
3141223	McKay, including littleway.....	..do.....	1,116	5,099			
3141226	Wood or metal fastened.....	..do.....	(8)	(8)			
3141228	Vulcanized.....	..do.....	247	1,718			
3141229	Other constructions.....	..do.....	61,474	65,195			
31413--	Youths' and boys' shoes.....	..do.....	23,548	81,774	19,684	19,563	65,088
3141311	Welted, including silhouwelt.....	..do.....	11,596	48,255	9,378	xxx	xxx
3141331	McKay, including littleway.....	..do.....	2,040	5,506	1,782	xxx	xxx
3141341	Wood or metal fastened.....	..do.....	(7)	(7)	1,248	xxx	xxx
3141351	Stitchdown.....	..do.....	8,482	23,201	6,904	xxx	xxx
3141371	Other constructions.....	..do.....	71,430	74,812	219	xxx	xxx
	Construction, nsk.....	..do.....	...	...	153	xxx	xxx
31414--	Women's dress, work, and play shoes, total <sup>a</sup> .....	..do.....	279,462	996,402	245,071	246,803	874,280
	Women's dress and work, including sandal type dress shoes (sizes 2 1/2 and over).....	..do.....	181,776	786,386	173,610	175,601	712,521
3141411	Welted, including silhouwelt.....	..do.....	13,326	67,616	24,618	xxx	xxx
3141431	McKay, including littleway.....	..do.....	14,043	36,285	28,240	xxx	xxx
3141441	Slip-lasted.....	..do.....	5,860	22,466	11,008	xxx	xxx
3141451	Cemented, excluding slip-lasted.....	..do.....	135,670	609,745	99,700	xxx	xxx
3141471	Other constructions.....	..do.....	12,877	50,274	7,104	xxx	xxx
	Construction, nsk.....	..do.....	...	...	2,940	xxx	xxx
	Women's play shoes, including non-dress type sandals <sup>a</sup> .....	..do.....	97,686	210,016	71,461	71,202	161,759
3141481	Welted, including silhouwelt.....	..do.....	5,404	10,520	2,298	xxx	xxx
3141482	McKay, including littleway.....	..do.....	6,416	14,482	6,347	xxx	xxx
3141485	Slip-lasted.....	..do.....	28,019	62,046	32,782	xxx	xxx
3141487	Cemented, excluding slip-lasted.....	..do.....	51,740	112,544	20,024	xxx	xxx
3141489	Other constructions.....	..do.....	6,107	10,424	4,167	xxx	xxx
	Construction, nsk.....	..do.....	...	...	5,843	xxx	xxx
31415--	Misses' and children's shoes <sup>a</sup> .....	..do.....	69,766	192,256	67,826	68,304	188,276
	Misses' dress shoes (sizes 12 1/2 to 3) <sup>a</sup> .....	..do.....	38,631	109,888	36,894	37,254	105,109
3141511	Welted, including silhouwelt.....	..do.....	5,641	22,641	7,730	xxx	xxx
3141515	Cemented, excluding slip-lasted.....	..do.....	16,384	51,058	9,709	xxx	xxx
3141517	Stitchdown.....	..do.....	14,655	32,077	15,987	xxx	3,216
3141519	Other constructions.....	..do.....	1,951	4,112	2,299	xxx	xxx
	Construction, nsk.....	..do.....	...	...	1,169	xxx	xxx
	Children's (sizes 8 1/2 to 12).....	..do.....	31,135	82,368	30,932	31,050	83,167
3141542	Welted.....	..do.....	6,569	24,717	7,017	xxx	xxx
3141545	Cemented, except slip-lasted.....	..do.....	10,793	29,195	7,165	xxx	xxx
3141547	Stitchdown.....	..do.....	11,641	24,747	14,787	xxx	xxx
3141549	Other constructions.....	..do.....	2,132	3,709	1,655	xxx	xxx
	Construction, nsk.....	..do.....	...	...	308	xxx	xxx
31416--	Infants' and babies'.....	..do.....	36,470	76,181	36,493	36,394	71,035
	Infants' (sizes 4 1/2 to 8).....	..do.....	25,564	59,083	23,086	23,026	50,331
3141612	Welted, including silhouwelt.....	..do.....	7,186	21,726	7,444	xxx	xxx
3141615	Cemented, excluding slip-lasted.....	..do.....	8,005	18,504	4,951	xxx	xxx
3141617	Stitchdown.....	..do.....	8,562	15,002	8,007	xxx	xxx
3141619	Other constructions.....	..do.....	1,811	3,851	1,968	xxx	xxx
	Construction, nsk.....	..do.....	...	...	716	xxx	xxx
	Babies' (sizes 0 to 4).....	..do.....	10,906	17,098	13,407	13,368	20,704
3141631	Turned.....	..do.....	3,359	3,915	4,911	xxx	xxx
3141632	Welted, including silhouwelt.....	..do.....	2,546	4,836	1,919	xxx	xxx
3141637	Stitchdown.....	..do.....	2,279	3,686	3,216	xxx	xxx
3141639	Other constructions.....	..do.....	2,722	4,661	2,722	xxx	xxx
	Construction, nsk.....	..do.....	...	...	639	xxx	xxx
31417--	All other footwear.....	..do.....	12,498	47,184	8,290	8,062	31,854

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958		1954	
			Total production		Total production (quantity)	Total shipments including inter-plant transfers
			Quantity	Value (\$1,000)		
3141--	Footwear, except rubber--Continued					
31417--	All other footwear--Continued					
3141711	Athletic shoes (except rubber soled canvas top), such as baseball, basketball, bowling, boxing, fencing, football, golf, skating, skiing, soccer, softball, track and field, wrestling, etc., men's, women's and children's.....	1,000 prs...	5,929	28,609	3,529	3,531
3141751	Beach and shower slippers (except rubber).....	..do.....	274	399	4,761	4,531
3141798	All other footwear, except rubber and house slippers.....	..do.....	6,295	18,176		
3142--	House slippers, total.....	..do.....	970,865	115,700	56,904	56,000
	Men's, youths' and boys'.....	..do.....	15,903	36,177	13,505	13,319
3142011	Turned.....	..do.....	824	1,125	1,647	xxx
3142015	Cemented, excluding slip-lasted.....	..do.....	6,501	14,472	2,640	xxx
3142017	Stitchdown.....	..do.....	2,625	8,057	1,845	xxx
3142018	Soft-sole.....	..do.....	4,135	8,269	95,242	xxx
3142019	Other constructions.....	..do.....	1,818	4,254		
3142010	Construction, nsk.....	..do.....	...	...	102,131	xxx
	Women's.....	..do.....	43,865	67,031	33,944	33,519
3142031	Turned.....	..do.....	780	684	2,574	xxx
3142051						
3142033	McKay, including littleway.....	..do.....	1,269	1,766	1,903	xxx
3142053						
	Slip-lasted.....	..do.....	5,807	8,079	10,689	xxx
3142034	Made and intended for indoor use.....	..do.....	5,266	7,121	10,689	xxx
3142054						
	All other types.....	..do.....	541	958		xxx
	Cemented, excluding slip-lasted.....	..do.....	12,596	24,265	6,387	xxx
3142035	Made and intended for indoor use.....	..do.....	10,988	21,606	6,387	xxx
3142055						
	All other types.....	..do.....	1,608	2,659		xxx
	Soft-sole.....	..do.....	16,512	22,341		
3142038	Made and intended for indoor use.....	..do.....	14,329	19,805	910,640	xxx
3142058						
3142039	Other constructions.....	..do.....	6,901	9,896		xxx
3142059						
3142030	Construction, nsk.....	..do.....	...	...	1,751	xxx
3142069	Misses'.....	..do.....	2,924	3,861	2,512	2,512
3142079	Children's, infants' and babies'.....	..do.....	8,173	8,631	6,943	6,650

D Withheld to avoid disclosing figures for individual companies.

NA Not available. <sup>1</sup>Revised.<sup>1</sup>Represents the quantity and value of shipments of products made by or for companies from their own materials. See text for more detailed explanation.<sup>2</sup>Figures exclude footwear cut stock and findings made from rubber and elastomer resin and plastics which are not primary to Industry 3131. Data on the shipments of rubber and elastomer resin footwear cut stock will be included with the figures for Industry 3096, Fabricated Rubber Products, NEC; footwear cut stock and finding made from plastics will be included with figures for Industry 3079, Miscellaneous Plastics Products.<sup>3</sup>These quantity figures are from the 1958 Census of Manufactures and differ, to some extent, from the figures collected in the annual Current Industrial Report Series M31A.<sup>4</sup>For 1954, figures on men's oxford-type work shoes less than 6" high and 6" high and over were not collected separately.<sup>5</sup>For 1958, product codes 3141216, 3141218, and 3141219 were combined to avoid disclosing figures for individual companies.<sup>6</sup>For 1958, product codes 3141226 and 3141229 were combined to avoid disclosing figures for individual companies.<sup>7</sup>For 1958, product codes 3141341 and 3141371 were combined to avoid disclosing figures for individual companies.<sup>8</sup>Figures on misses' play shoes are included in the data shown for women's play shoes in the 1958 Census of Manufactures; in the Current Industrial Report Series M31A, Shoes and Slippers, misses' play shoes are included with misses' dress shoes.<sup>9</sup>Includes substantial amounts described as soft-sole construction.<sup>10</sup>Includes production of 1,078 thousand pairs of youths' and boys' house slippers, for which type of construction was not collected in 1954.

Table 6B.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments (\$1,000)		Product class, region, and State	Value of shipments (\$1,000)		Product class, region, and State	Value of shipments (\$1,000)
<u>Finished cattle hide and kip side leathers</u> (31111):			<u>Other finished leather</u> (31114):			<u>Youths' and boys' shoes</u> (31413):	
United States, total:			United States, total:			United States, total:	
1958.....	411,344		1958.....	69,156		1958 <sup>4</sup> .....	81,774
1957.....	395,008		1957.....	75,565		1954.....	65,088
1956.....	417,410		1956.....	81,478			1958 <sup>1</sup>
1955.....	405,210		1955.....	90,245			
1954.....	383,080		1954.....	85,408		New England.....	15,970
1953.....	456,411		1953.....	134,423		Maine.....	1,833
1952.....	424,174		1952.....	133,755		Massachusetts.....	11,299
1951.....	576,108		1951.....	148,914			
1950.....	512,432		1950.....	160,715		Middle Atlantic.....	24,474
1947.....	646,105		1947.....	146,920		New York.....	10,888
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954	Pennsylvania.....	13,586
New England.....	121,244	83,115	New England.....	12,863	13,882	East North Central.....	10,086
New Hampshire.....	12,096	( <sup>2</sup> )	Middle Atlantic.....	31,025	33,326	Wisconsin.....	2,980
Massachusetts.....	97,868	70,854	New York.....	11,700	12,144	South Atlantic.....	8,748
Middle Atlantic.....	103,974	119,261	New Jersey.....	7,170	10,376	Georgia.....	5,594
New York.....	44,773	54,270	Pennsylvania.....	12,155	10,806		
New Jersey.....	25,180	24,409	East North Central.....	8,212	14,174	East South Central.....	8,122
Pennsylvania.....	34,021	40,582					
East North Central.....	119,583	112,246	<u>Men's dress shoes, includ- ing playshoes (31411):</u>	Value of shipments (\$1,000)		<u>Women's dress and women's and misses' playshoes</u> (31414):	Value of shipments (\$1,000)
Illinois.....	34,226	31,286	United States, total:			United States, total:	
Michigan.....	13,784	25,731	1958 <sup>4</sup> .....	472,469		1958 <sup>4</sup> .....	996,402
Wisconsin.....	59,543	45,778	1954.....	438,608		1954.....	874,280
West North Central.....	9,241	8,066		1958 <sup>1</sup>			1958 <sup>1</sup>
South Atlantic.....	28,774	26,621	New England.....	185,721		New England.....	378,157
West Virginia.....	9,843	7,527	Maine.....	33,625		Maine.....	111,035
East South Central.....	17,680	21,427	Massachusetts.....	107,407		New Hampshire.....	89,398
Pacific.....	10,796	11,781	Middle Atlantic.....	57,800		Massachusetts.....	172,281
California.....	10,581	11,781	New York.....	38,071		Middle Atlantic.....	186,795
	Value of shipments (\$1,000)		East North Central.....	115,966		New York.....	91,998
<u>Finished calf and whole kip leathers (31112):</u>			Illinois.....	49,743		New Jersey.....	5,477
United States, total:			Wisconsin.....	57,338		Pennsylvania.....	89,320
1958.....	62,643		West North Central.....	44,633		East North Central.....	149,818
1957.....	71,519		South Atlantic.....	15,156		Ohio.....	70,055
1956.....	67,537		Maryland.....	2,363		Illinois.....	58,412
1955.....	74,529		West South Central.....	1,754		West North Central.....	157,573
1954.....	63,599					Missouri.....	155,245
1953.....	89,499		<u>Men's work shoes (31412):</u>	Value of shipments (\$1,000)		South Atlantic.....	24,785
1952.....	81,959		United States, total:			Maryland.....	7,619
1951.....	91,143		1958 <sup>4</sup> .....	146,860		East South Central.....	52,257
1950.....	105,522		1957.....	150,939		Tennessee.....	24,930
1947.....	107,747		1956.....	149,474		West South Central.....	23,357
	Shipments		1955.....	128,591		Arkansas.....	15,730
	1958 <sup>1</sup>	1954	1954.....	109,993		Texas.....	7,627
Quantity (1,000 sq.ft.)	Value (\$1,000)	value (\$1,000)	1953.....	124,104		Pacific.....	23,071
United States, total...	83,612	62,643	1952.....	123,981		California.....	22,957
New England.....	24,283	16,857	1951.....	207,307			
Middle Atlantic.....	21,659	18,593	1950.....	123,323		<u>Misses' and children's shoes (31415):</u>	Value of shipments (\$1,000)
East North Central.....	35,445	25,722	1947.....	97,523		United States, total:	
	Value of shipments (\$1,000)			1958 <sup>1</sup>	1954	1958 <sup>4</sup> .....	192,256
<u>Finished sheep and lamb leather (31113):</u>			New England.....	39,577	( <sup>2</sup> )	1954.....	188,276
United States, total:			Maine.....	12,275	4,031		1958 <sup>1</sup>
1958.....	56,726		New Hampshire.....	3,421	( <sup>2</sup> )		
1957.....	67,170		Massachusetts.....	23,881	19,313	New England.....	37,279
1956.....	64,369		Middle Atlantic.....	22,509	( <sup>2</sup> )	Maine.....	6,098
1955.....	65,762		East North Central.....	23,219	( <sup>2</sup> )	New Hampshire.....	11,066
1954.....	62,156		Wisconsin.....	14,783	13,676	Massachusetts.....	16,820
1947.....	91,674		West South Central.....	2,453	( <sup>3</sup> )	Connecticut.....	3,295
	Shipments		Texas.....	2,451	( <sup>3</sup> )		
	1958 <sup>1</sup>	1954	Pacific.....	2,519	3,052		
Quantity (1,000 sq.ft.)	Value (\$1,000)	value (\$1,000)					
United States, total...	228,263	56,726					
New England.....	137,602	34,707					
Massachusetts.....	115,252	27,861					
Middle Atlantic.....	71,369	16,831					
New York.....	51,323	11,608					

See footnotes at end of table.



## 31A-19

Product class, region, and State	Value of shipments (\$1,000)		Product class, region, and State	Value of shipments (\$1,000)		Product class, region, and State	Value of shipments (\$1,000)	
<u>Misses' and children's shoes (31415)--Continued</u>	1958 <sup>1</sup>		<u>Infants' and babies' shoes (31416)--Continued</u>	1958 <sup>1</sup>	1954	<u>All other footwear (31417)--Continued</u>	1958 <sup>1</sup>	
Middle Atlantic.....	68,936		Middle Atlantic.....	21,047	17,659	West North Central.....	1,626	
Pennsylvania.....	45,759		Pennsylvania.....	13,884	11,935	West South Central.....	1,789	
East North Central.....	19,050		East North Central.....	18,580	17,641	Pacific.....	1,755	
Wisconsin.....	11,416		Illinois.....	12,715	12,549	California.....	1,755	
West North Central.....	23,218		Wisconsin.....	5,391	4,469	Value of shipments (\$1,000)		
South Atlantic.....	7,451		West North Central.....	9,865	12,823	<u>House slippers (31420):</u>		
Virginia.....	2,611		South Atlantic.....	1,634	1,940	United States, total:		
East South Central.....	20,854		East South Central.....	5,361	3,906	1958 <sup>4</sup> .....	115,700	
Tennessee.....	16,313		West South Central.....	3,817	3,538	1957.....	119,901	
West South Central.....	15,120		Value of shipments (\$1,000)			1956.....	118,341	
Arkansas.....	14,460		<u>All other footwear (31417):</u>			1955.....	105,343	
Value of shipments (\$1,000)			United States, total:			1954.....	92,241	
<u>Infants' and babies' shoes (31416):</u>			1958 <sup>4</sup> .....			1947.....	75,390	
United States, total:			1954.....					
1958 <sup>4</sup> .....	76,181		1958 <sup>1</sup>			New England.....	26,429	20,925
1957.....	76,765		20,056			Massachusetts.....	19,229	16,356
1956.....	74,463		16,334			Connecticut.....	1,951	1,853
1955.....	72,002		12,994			Middle Atlantic.....	66,502	53,594
1954.....	71,035		8,038			New York.....	46,184	39,892
1953.....	66,469		8,089			New Jersey.....	10,376	7,630
1952.....	64,471		2,099			Pennsylvania.....	9,942	5,972
1951.....	60,983		2,911			East North Central.....	5,587	5,021
1947.....	57,176		2,911			Illinois.....	1,983	2,449
1958 <sup>1</sup>			2,911			West North Central.....	8,704	4,782
1954			2,911			Missouri.....	7,463	(2)
New England.....	15,847	13,479	2,911			South Atlantic.....	6,748	4,691
Maine.....	1,500	1,509	2,911			Georgia.....	2,361	(2)
New Hampshire.....	1,307	1,035	2,911					
Massachusetts.....	12,056	10,124	2,911					

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 31111, Maine, Vermont, Ohio, Indiana, Minnesota, Missouri, Maryland, Virginia, North Carolina, Georgia, Kentucky, and Tennessee; 31112, Massachusetts, New York, New Jersey, Pennsylvania, Ohio, Wisconsin, and Missouri; 31113, New Hampshire, New Jersey, Pennsylvania, Illinois, and Wisconsin; 31114, Massachusetts, Connecticut, Illinois, Michigan, and Delaware; 31411, New Hampshire, Connecticut, Pennsylvania, Indiana, Michigan, Minnesota, Missouri, Kansas, Virginia, West Virginia, Georgia, Tennessee, Texas, and California; 31412, New York, Pennsylvania, Illinois, Michigan, Minnesota, Missouri, North Carolina, Georgia, Tennessee, Alabama, and California; 31413, New Hampshire, Ohio, Indiana, Illinois, Missouri, Maryland, Virginia, Kentucky, and Tennessee; 31414, Connecticut, Indiana, Wisconsin, Virginia, Georgia, Florida, Kentucky, and Mississippi; 31415, New York, Indiana, Illinois, Missouri, Georgia, Kentucky, and Mississippi; 31416, New York, Missouri, Tennessee, and Arkansas; 31417, Maine, Pennsylvania, Ohio, and Texas; 31412, New Hampshire, Ohio, Maryland, and North Carolina.

<sup>2</sup>Shipments of over \$1 million were reported in 1954 but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported in 1954.

<sup>4</sup>For 1958, represents value of production.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958

Code	Item	Unit of measure	Quantity		Delivered cost (\$1,000)	
			INDUSTRY 3121—INDUSTRIAL LEATHER BELTING			
	Materials, parts, supplies, total.....	.....	xxx		26,211	
31110	Finished leather.....	1,000 lbs.....	9,675		11,966	
970099	All other materials, parts and supplies.....	.....	xxx		11,666	
973000	Materials, parts, supplies, nsk.....	.....	xxx		12,579	
			INDUSTRY 3131—FOOTWEAR CUT STOCK			
	Materials, parts, supplies, total.....	.....	xxx		143,409	
	Finished leather:					
	Upper leather, total.....	1,000 sq. ft.....	(NA)		4,919	
311112	Lining leather.....	...do.....	17,708		3,823	
311119	All other upper leather.....	...do.....	(NA)		1,096	
	Soling leather, total.....	1,000 lbs.....	132,156		53,180	
311131	Innersole leather.....	...do.....	37,657		11,616	
311139	All other soling leather.....	...do.....	94,499		41,564	
311191	All other finished leather.....	.....	xxx		6,308	
970099	All other materials, parts, supplies.....	.....	xxx		60,617	
973000	Materials, parts, supplies, nsk.....	.....	xxx		118,385	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3141—FOOTWEAR EXCEPT RUBBER		INDUSTRY 3142—HOUSE SLIPPERS	
	Materials, parts, supplies, total.....	.....	xxx	927,138	xxx	50,216
	Finished leather:					
	Upper leather, total.....	1,000 sq. ft.....	900,341	376,932	32,715	11,866
311112	Lining leather.....	...do.....	390,263	149,864	20,416	7,595
311119	All other upper leather.....	...do.....	510,078	227,068	12,299	4,271
	Soling leather, total.....	1,000 lbs.....	120,972	58,135	(NA)	2,007
311131	Innersole leather.....	...do.....	78,844	35,117	(NA)	2,007
311139	All other soling leather.....	...do.....	42,128	23,018		
311191	All other finished leather.....	.....	xxx	6,256	xxx	331
313111	Purchased leather cut stock.....	.....	xxx	30,024	xxx	539
397111	Composition and nuclear types of soling materials.....	1,000 lbs.....	(NA)	55,939	(NA)	3,309
	Fabrics:					
229511	Coated, impregnated or laminated fabrics.....	1,000 lin. yds....	10,150	11,571	2,143	2,966
	Other fabrics, (woven over 12" wide), total.....	...do.....	49,409	26,937	12,985	9,877
223321	Cotton lining fabrics.....	...do.....	36,956	17,327	4,523	2,262
223325	All other cotton fabrics.....	...do.....	5,985	3,307	4,037	2,949
223451	Other fabrics.....	...do.....	6,468	6,303	4,425	4,666
970011	Containers and other packaging supplies.....	.....	xxx	34,371	xxx	2,732
970099	All other materials, parts, and supplies.....	.....	xxx	268,629	xxx	10,196
973000	Materials, parts, supplies, nsk.....	.....	xxx	158,344	xxx	16,393

NA Not available.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
31111	Finished cattle hide and kip side leathers, all establishments (primary product class of estab.)..	183	18,036	81,286	15,848	30,960	65,283	141,704	289,406	430,068	3,784
	Establishments with:										
	90% or more specialization....	152	14,401	64,157	12,583	24,429	51,291	112,730	245,068	357,414	2,918
	75-89% specialization.....	10	1,856	9,100	1,655	3,302	7,519	14,315	24,113	38,383	612
31112	Finished calf and whole kip leathers, all establishments (primary product class of estab.)..	17	3,667	18,078	3,258	6,375	15,074	29,892	48,885	80,830	879
31113	Finished sheep and lamb leathers, all establishments (primary product class of estab.).....	58	1,775	7,480	1,405	2,659	5,078	12,943	38,979	52,565	393
	Establishments with:										
	90% or more specialization....	47	1,361	5,784	1,072	2,047	3,906	10,188	31,448	42,058	351
	75-89% specialization.....	5	298	1,231	231	443	802	1,974	5,554	7,698	(1)
31114	Other finished leathers, nec, all establishments (primary product class of estab.).....	52	3,782	17,143	3,165	6,290	12,924	27,754	39,767	68,024	806
	Establishments with:										
	90% or more specialization....	41	2,266	10,503	1,864	3,630	7,690	17,175	26,292	44,013	379
3111-02	LEATHER TANNING AND FINISHING, TANNERIES (entire subindustry).....	291	27,210	122,157	23,949	46,710	99,374	202,210	325,025	529,370	5,880
	Establishments with:										
	90% or more specialization.....	282	26,985	121,272	23,747	46,294	98,645	200,265	310,465	523,008	5,862
31111-02	Finished cattle hide and kip side leathers, tanneries (entire subindustry).....	144	17,182	76,654	15,306	29,869	63,201	126,668	215,193	341,586	3,556
	Establishments with:										
	90% or more specialization....	118	13,878	60,881	12,352	23,976	50,338	100,562	173,410	273,799	2,711
	75-89% specialization.....	10	1,856	9,100	1,655	3,302	7,519	14,315	24,113	38,383	612
31112-02	Finished calf and whole kip leathers, tanneries (entire subindustry).....	15	3,661	18,002	3,258	6,375	15,074	29,309	41,006	72,039	879
31113-02	Finished sheep and lamb leathers, tanneries (entire subindustry).....	35	1,577	6,292	1,315	2,478	4,673	9,597	20,193	30,297	376
	Establishments with:										
	90% or more specialization....	28	1,212	4,877	1,018	1,938	3,674	7,296	15,592	23,331	349
31114-02	Other finished leathers, nec, tanneries (entire subindustry).....	36	3,645	16,316	3,104	6,167	12,651	25,620	31,956	57,993	768
	Establishments with:										
	90% or more specialization....	28	2,143	9,751	1,809	3,515	7,433	15,388	19,416	35,275	341
	75-89% specialization.....	8	1,502	6,565	1,295	2,652	5,218	10,232	12,540	22,718	427
31115-02	Rough, russet and crust leathers, tanneries (entire subindustry).....	8	887	3,964	736	1,416	2,991	7,641	12,669	20,002	(1)
31113-03	Finished sheep and lamb leathers, converters (entire subindustry)....	23	198	1,188	90	181	405	3,346	18,786	22,268	(1)
	Establishments with:										
	90% or more specialization....	19	149	907	54	109	232	2,892	15,856	18,727	(D)
3141	FOOTWEAR, EXCEPT RUBBER (entire industry).....	1,115	215,311	662,421	194,314	348,481	542,179	1,086,260	964,289	2,048,857	14,444
	Establishments with:										
	90% or more specialization.....	1,029	204,699	632,585	184,740	332,050	517,486	1,044,534	933,402	1,976,446	13,718
	75-89% specialization.....	24	3,398	9,490	3,029	5,348	7,499	14,608	14,681	29,272	189
31411	Men's dress shoes, including play shoes (primary product class of estab.).....	164	46,554	147,091	41,709	73,415	119,834	256,195	247,603	503,741	2,784
	Establishments with:										
	90% or more specialization....	110	31,541	99,946	28,316	50,165	81,537	180,405	176,092	356,659	1,565
	75-89% specialization.....	13	5,231	18,430	4,518	7,645	14,267	27,760	24,098	51,648	154
31412	Men's work shoes (primary product class of estab.).....	58	12,428	38,727	11,219	20,407	30,998	65,459	84,534	149,874	1,430
	Establishments with:										
	90% or more specialization....	40	8,500	26,516	7,695	13,870	21,194	47,734	59,689	107,273	918
	75-89% specialization.....	7	1,767	5,448	1,633	2,900	4,741	9,109	12,802	21,944	(1)

See footnotes at end of table.

Table 8.-General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958-Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	FOOTWEAR, EXCEPT RUBBER-Continued										
31413	Youths' and boys' shoes (primary product class of estab.).....	23	4,769	13,615	4,412	7,814	11,701	22,183	22,924	45,064	287
	Establishments with:										
	90% or more specialization....	8	1,920	5,506	1,784	3,201	4,754	10,358	9,966	20,249	( <sup>1</sup> )
31414	Women's dress, work, and play shoes (primary product class of estab.)..	459	110,370	338,820	99,871	179,046	277,684	539,284	459,168	997,287	5,981
	Establishments with:										
	90% or more specialization....	390	94,731	293,681	85,434	153,220	239,882	467,701	392,222	858,552	5,080
	75-89% specialization.....	28	6,848	19,848	6,255	11,679	16,217	29,809	32,371	62,218	235
31415	Misses' and children's shoes (primary product class of estab.)..	120	25,367	78,351	23,098	42,122	64,462	132,908	101,921	234,710	1,993
	Establishments with:										
	90% or more specialization....	33	5,579	17,290	5,102	9,458	14,654	25,384	24,174	49,518	551
	75-89% specialization.....	19	3,975	11,317	3,753	6,943	9,875	18,680	17,106	35,717	376
31416	Infants' and babies' shoes (primary product class of estab.).....	74	6,663	17,868	5,956	10,436	14,326	30,045	21,110	51,296	597
	Establishments with:										
	90% or more specialization....	57	4,045	10,885	3,601	6,313	8,688	18,619	13,846	32,577	483
31417	All other footwear (primary product class of estab.).....	107	4,627	14,600	3,974	7,245	11,334	23,397	20,942	44,275	341
	Establishments with:										
	90% or more specialization....	90	3,569	11,037	3,060	5,654	8,773	17,645	16,345	33,914	299
3142	HOUSE SLIPPERS (entire industry).....	164	11,520	37,057	10,168	18,046	28,291	59,656	52,552	112,145	590
	Establishments with:										
	90% or more specialization.....	136	7,920	25,473	7,003	12,292	19,695	40,020	36,670	76,673	371
	75-89% specialization.....	7	958	3,433	830	1,536	2,527	5,683	4,155	9,837	( <sup>1</sup> )

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.



# Leather Gloves; Luggage; and Related Goods

This report shows 1958 Census of Manufactures statistics for establishments classified in the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3151—Leather Gloves
- 3161—Luggage
- 3171—Handbags and Purses
- 3172—Small Leather Goods
- 3199—Leather Goods, Not Elsewhere Classified

It should be noted that with the exception of the Leather Gloves Industry (S.I.C. 3151), the products of these industries are made from both leather and nonleather materials. For example, plants primarily engaged in making luggage (whether from plastics, leather, or other materials) are classified in the luggage industry; the basis for classification is the type of product rather than the kind of raw material used.

### 3151—Leather Gloves. (Full Standard Industrial Classification Title: Leather Dress, Semidress, and Work Gloves.)

This industry comprises establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in Industry 3949, Sporting and Athletic Goods, N.E.C.; knit gloves in Industry 2259, Knitting Mills, N.E.C.; and dress, semidress, and work gloves and mittens of cloth, or cloth and leather combined in Industry 2381, Fabric Dress and Work Gloves. For a detailed list of primary products of Industry 3151, refer to table 6, product codes 3151012 to 3151079.

"Leather Dress Gloves" and "Leather Work Gloves" which were separate industries in the 1945 Standard Industrial Classification were combined into one industry, "3151, Leather Gloves," in the 1957 Standard Industrial Classification. Data for 1957 and earlier years have been combined.

The value of production of Industry 3151, Leather Gloves, in 1958 totaled \$54 million. This included production of primary products (leather dress and work gloves) valued at \$43 million, production of secondary products valued at \$7 million, and miscellaneous receipts (mainly resales of finished products) valued at \$4 million.

Industry 3151 production of leather dress and work gloves in 1958 represented 85 percent of its total production (primary and secondary products). The primary product specialization ratio for 1954 was 88 percent.

Industry 3151 production of all-leather dress and work gloves in 1958 represented 86 percent of these products, valued at \$49 million, made by all industries. The 1954 coverage ratio was 90 percent.

### 3161—Luggage

This industry comprises establishments primarily engaged in manufacturing luggage of leather or other materials. Among the products included in this industry are suitcases, briefcases, trunks, hat boxes (except paper or

paperboard), and camera and binocular cases. Establishments primarily engaged in manufacturing luggage hardware are classified in Industry 3429, Hardware, N.E.C. For a detailed list of primary products of Industry 3161, refer to table 6, product codes 3161011 to 3161098.

In the 1957 Standard Industrial Classification, the definition of Industry 3161, Luggage, was revised to (1) include musical instrument cases and (2) exclude men's travel kits. This resulted in the transfer of 16 establishments primarily engaged in making musical instrument cases into the industry and the transfer of 17 establishments primarily manufacturing men's travel kits out of the industry. The 15 establishments, which had been classified in the 1945 S.I.C. industry, "3986, Jewelry and Instrument Cases," had a total employment of 474 in 1958 and an adjusted value added by manufacture of \$2 million. The 17 establishments primarily producing men's travel kits, which were reclassified in Industry 3172, Small Leather Goods, accounted for employment of 383 and adjusted value added by manufacture of \$3 million. To this extent, the 1957 and earlier figures, which are based on the 1945 Standard Industrial Classification definition, are not comparable.

The specialization and coverage ratios for Industry 3161 were over 90 percent in both 1958 and 1954, indicating a high degree of comparability between industry statistics (tables 1-4) and product statistics (table 6). Definitions of the specialization and coverage ratios are provided in table 5A.

### 3171—Handbags and Purses. (Full Standard Industrial Classification Title: Women's Handbags and Purses.)

This industry comprises establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal (Industry 3911). For a detailed list of primary products of Industry 3171, refer to table 6, product codes 3171011 to 3171098.

The specialization and coverage ratios for Industry 3171 were over 90 percent in both 1958 and 1954, indicating a high degree of comparability between industry statistics (tables 1-4) and product statistics (table 6). Definitions of the specialization and coverage ratios are provided in Table 5A.

### 3172—Small Leather Goods. (Full Standard Industrial Classification Title: Personal Leather Goods, Except Handbags and Purses.)

This industry comprises establishments primarily engaged in manufacturing small articles such as billfolds, keycases, and coin purses of leather or other materials, except precious metal (Industry 3911). For a detailed list of primary products of Industry 3172, refer to table 6, product codes 3172011 to 3172051.

The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 S.I.C. These were Small Leather Goods (old Industry 3172) and Jewelry and Instrument Cases (old Industry 3986). In addition, the definition for Industry 3172, Small Leather Goods, was further revised in the new classification system to: (1) exclude the output of musical instru-



ment cases which had formerly been classified in Industry 3986, and (2) include the production of men's travel kits which had been previously a primary product of Industry 3161, Luggage.

These revisions resulted in the shift of 15 establishments primarily manufacturing musical instrument cases from the old Industry 3986, Jewelry and Instrument Cases, to Industry 3161, Luggage, and the movement of 17 establishments primarily engaged in manufacturing men's travel kits into this industry. The 15 establishments which were reclassified from the old Industry 3986 to Industry 3161 had a total employment of 474 and an aggregate adjusted value added by manufacture of \$2 million. The 17 establishments primarily making men's travel kits, and which are now classified in Industry 3161, account for a total employment of 383 and an adjusted value added by manufacture of \$3 million. To this extent, the data for the two industries, Jewelry and Instrument Cases (old Industry 3986) and Small Leather Goods (old Industry 3172), which are shown combined for 1957 and earlier years, are not comparable with the 1958 figures.

The value of shipments of Industry 3172, Small Leather Goods, in 1958 totaled \$138 million. This included shipments of primary products (small leather goods) valued at \$118 million, shipments of secondary products valued at \$11 million, and miscellaneous receipts of \$9 million. In addition, small leather goods valued at \$17 million were produced in industries other than 3172.

Industry 3172 shipments of small leather goods in 1958 represented 91 percent of its total product shipments (primary and secondary), and 87 percent of the total value of small leather goods (\$135 million). Because of the revision of the industry definition, comparable percentages for 1954 are not available.

### 3199—Leather Goods, N.E.C.

This industry comprises establishments primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harness, and whips; embossed leather goods; leather desk sets; and razor strops.

Establishments primarily engaged in manufacturing leather garments are classified in Industry 2386, Leather and Sheep Lined Clothing; leather belts in Industry 2387, Apparel Belts; leather gaskets in Industry 3293, Gaskets and Insulations; leather buffing and polishing wheels in Industry 3291, Abrasive Products; and leather costume jewelry in Industry 3961, Costume Jewelry.

The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 S.I.C. These were Saddlery, Harness, and Whips (old Industry 3192) and Leather Goods, N.E.C. (old Industry 3199). Data for 1957 and earlier years have been combined.

The value of shipments of Industry 3199, Leather Goods, N.E.C., in 1958 totaled \$60 million. This included shipments of primary products (leather goods, n.e.c.) of \$51 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts (mainly resales of finished products) of \$7 million.

Industry 3199 shipments of leather goods, n.e.c., in 1958 represented 96 percent of its total product shipments (primary and secondary). The comparable primary product specialization ratio for 1954 on a combined industry basis was 92 percent. Industry 3199 shipments of leather goods, n.e.c., in 1958 represented 84 percent of these products valued at \$61 million shipped by all industries. The comparable 1954 coverage ratio was 85 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## LEATHER GLOVES AND MITTENS: SIC 315

Value Added by Manufacture by State: 1958



Includes Only Industry 3151. See Table 2.

Bureau of the Census M-58-D315

## LUGGAGE: SIC 316

Value Added by Manufacture by State: 1958



Includes Only Industry 3161. See Table 2.

Bureau of the Census M-58-D316

## HANDBAGS AND OTHER PERSONAL LEATHER GOODS: SIC 317

Value Added by Manufacture by State: 1958



Includes Industries 3171 and 3172. See Table 2.

Bureau of the Census M-58-D317

## LEATHER GOODS, NOT ELSEWHERE CLASSIFIED: SIC 319

Value Added by Manufacture by State: 1958



Includes Only Industry 3199. See Table 2.

Bureau of the Census M-58-D319



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>4</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new	Specialization, ratio <sup>5</sup>	Coverage <sup>5</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3151 (old SIC 3151, 3152)	Leather gloves:														
	1958 <sup>6</sup> .....	171	179	76	6,212	15,999	5,503	9,214	12,705	<sup>7</sup> 25,999	28,309	<sup>7</sup> 54,155	263	85	86
	1954.....	(NA)	<sup>8</sup> 239	90	6,917	15,573	6,181	10,433	12,344	22,718	26,201	49,989	122	88	90
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,414	16,555	5,649	10,529	13,197	26,724	(NA)	(NA)	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,339	17,166	6,744	11,327	14,195	23,130	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,713	17,269	7,690	13,107	13,611	24,515	26,708	51,069	(NA)	(NA)	(NA)
	1947.....	(NA)	341	131	11,577	20,798	10,491	18,132	17,091	32,088	30,881	63,438	528	(NA)	(NA)
	1939.....	(NA)	231	(NA)	(NA)	(NA)	9,539	(NA)	7,061	12,467	13,269	25,736	(NA)	(NA)	(NA)
	1937.....	(NA)	221	(NA)	12,568	10,694	11,637	(NA)	9,039	14,998	15,720	30,718	(NA)	(NA)	(NA)
	1935.....	(NA)	224	(NA)	10,573	10,011	9,810	(NA)	8,500	14,257	13,874	28,131	(NA)	(NA)	(NA)
	1933.....	(NA)	194	(NA)	8,759	7,371	8,129	(NA)	6,434	12,093	11,377	23,470	(NA)	(NA)	(NA)
	1931.....	(NA)	227	(NA)	(NA)	(NA)	7,884	(NA)	7,554	14,888	13,136	28,024	(NA)	(NA)	(NA)
	1929.....	(NA)	257	(NA)	10,101	11,476	9,203	(NA)	9,204	18,917	20,206	39,123	(NA)	(NA)	(NA)
	1927.....	(NA)	232	(NA)	10,146	10,852	9,106	(NA)	8,814	17,386	19,276	36,662	(NA)	(NA)	(NA)
	1925 <sup>10</sup> .....	(NA)	226	(NA)	(NA)	(NA)	7,115	(NA)	6,915	15,514	17,779	33,293	(NA)	(NA)	(NA)
	1923.....	(NA)	260	(NA)	11,115	10,705	10,010	(NA)	8,545	17,857	20,224	38,081	(NA)	(NA)	(NA)
	1921.....	(NA)	272	(NA)	8,853	7,714	7,907	(NA)	5,843	11,011	13,844	24,855	(NA)	(NA)	(NA)
	1919.....	(NA)	355	(NA)	12,189	11,249	10,685	(NA)	8,151	20,655	26,286	46,941	(NA)	(NA)	(NA)
	1914.....	(NA)	352	(NA)	11,928	5,959	10,668	(NA)	4,558	9,443	12,171	21,614	(NA)	(NA)	(NA)
	1909.....	(NA)	377	(NA)	12,492	6,020	11,354	(NA)	4,764	10,423	13,208	23,631	(NA)	(NA)	(NA)
	1904.....	(NA)	339	(NA)	11,285	4,425	10,645	(NA)	3,840	7,739	10,001	17,740	(NA)	(NA)	(NA)
	1899 <sup>11</sup> .....	(NA)	394	(NA)	15,004	4,730	14,345	(NA)	4,183	7,443	9,483	16,926	(NA)	(NA)	(NA)
3161 (old SIC 3161)	Luggage:														
	1958 <sup>12</sup> .....	428	428	159	15,856	54,717	13,725	25,138	40,282	96,560	88,194	184,722	1,504	95	95
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,637	57,867	14,936	27,278	43,160	105,148	91,238	197,508	1,240	96	97
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,565	63,122	17,082	31,033	47,857	107,255	96,188	202,320	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	18,917	60,602	16,833	31,771	47,318	108,046	86,987	193,289	(S)	(NA)	(NA)
	1954.....	495	497	159	15,856	51,679	13,960	27,417	39,753	91,313	82,538	172,691	1,868	94	97
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,786	51,886	13,758	26,857	40,959	84,235	76,558	160,793	1,164	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,004	51,265	15,380	30,925	42,881	82,848	90,217	173,065	(S)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,502	43,594	14,014	27,489	36,849	66,944	76,385	143,329	(S)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,101	41,806	13,255	26,509	33,782	60,466	68,981	129,447	(S)	(NA)	(NA)
	1948 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,007	38,942	12,395	24,131	28,301	61,674	61,369	123,043	1,235	(NA)	(NA)
	1947.....	590	591	(NA)	16,002	41,055	13,852	27,814	30,981	67,662	65,206	132,868	1,842	94	97
	1939.....	(NA)	329	(NA)	9,924	11,556	8,326	(NA)	7,919	17,377	19,214	36,591	(NA)	(NA)	(NA)
	1937.....	(NA)	277	(NA)	9,708	10,624	8,708	(NA)	8,458	18,186	20,534	38,720	(NA)	(NA)	(NA)
	1935.....	(NA)	307	(NA)	7,644	8,278	6,654	(NA)	6,336	13,316	14,932	28,248	(NA)	(NA)	(NA)
	1933.....	(NA)	270	(NA)	5,831	4,791	5,117	(NA)	3,749	8,040	9,328	17,368	(NA)	(NA)	(NA)
	1931.....	(NA)	371	(NA)	(NA)	(NA)	6,198	(NA)	6,343	13,483	13,232	26,715	(NA)	(NA)	(NA)
	1929.....	(NA)	467	(NA)	13,069	18,682	11,359	(NA)	13,757	32,275	31,694	63,969	(NA)	(NA)	(NA)
	1927.....	(NA)	495	(NA)	12,097	17,591	10,345	(NA)	13,084	30,831	29,128	59,969	(NA)	(NA)	(NA)
	1925.....	(NA)	475	(NA)	11,964	17,282	10,348	(NA)	13,226	29,842	31,382	61,224	(NA)	(NA)	(NA)
	1923.....	(NA)	505	(NA)	13,217	17,685	11,441	(NA)	13,520	30,186	32,837	63,023	(NA)	(NA)	(NA)
	1921.....	(NA)	504	(NA)	10,045	13,240	8,712	(NA)	10,260	22,666	23,883	46,549	(NA)	(NA)	(NA)
1919.....	(NA)	597	(NA)	13,615	17,736	11,470	(NA)	12,464	30,710	33,222	63,932	(NA)	(NA)	(NA)	
1914.....	(NA)	561	(NA)	11,605	7,706	9,911	(NA)	5,540	12,847	13,625	26,472	(NA)	(NA)	(NA)	
1909.....	(NA)	524	(NA)	12,870	7,653	11,122	(NA)	5,537	13,399	14,629	28,028	(NA)	(NA)	(NA)	
1904.....	(NA)	373	(NA)	10,052	5,150	9,091	(NA)	4,139	9,536	9,108	18,644	(NA)	(NA)	(NA)	
1899.....	(NA)	312	(NA)	7,672	3,469	6,964	(NA)	2,777	6,474	5,955	12,429	(NA)	(NA)	(NA)	
3171 (old SIC 3171)	Handbags and purses:														
	1958.....	611	620	262	21,953	68,632	19,443	37,231	54,258	111,496	119,364	231,110	1,575	96	98
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	23,261	66,602	20,892	38,100	52,423	106,590	104,339	211,972	(S)	98	98
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	24,418	68,059	22,164	41,681	53,756	110,749	105,347	214,932	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	24,537	65,335	22,377	41,028	51,821	102,074	100,326	201,923	(S)	(NA)	(NA)
	1954.....	710	714	247	22,881	61,405	20,911	39,942	49,620	93,865	100,486	194,262	972	97	98
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,768	56,451	18,407	35,193	44,069	86,676	84,175	170,851	(S)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,780	48,652	18,643	40,593	38,557	64,740	86,280	151,020	(S)	(NA)	(NA)
	1947.....	725	736	279	20,378	45,664	18,468	38,725	36,168	77,042	86,264	163,306	799	99	97
	1939.....	(NA)	286	(NA)	15,700	14,777	14,048	(NA)	11,239	22,929	32,878	55,807	(NA)	(NA)	(NA)
	1937 <sup>13</sup> .....	(NA)	203	(NA)	12,236	11,264	11,306	(NA)	9,054	18,690	24,756	43,446	(NA)	(NA)	(NA)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new	Specialization ratio <sup>4</sup> (percent)	Coverage ratio <sup>5</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3172 (old SIC 3172, 3986)	Small leather goods:														
	1958 <sup>14</sup> .....	399	400	123	13,657	46,483	11,521	21,380	31,865	75,791	62,550	138,052	1,378	91	87
	1954.....	(NA)	425	129	14,666	44,079	12,219	23,473	30,305	69,882	53,516	124,164	1,303	(NA)	(NA)
	1947.....	(NA)	411	122	12,818	27,447	11,367	22,385	20,867	45,825	34,829	80,654	1,098	(NA)	(NA)
	1939 <sup>15</sup> .....	(NA)	242	(NA)	(NA)	(NA)	7,714	(NA)	6,561	15,280	12,741	28,021	(NA)	(NA)	(NA)
3199 (old SIC 3199, 3192)	Leather goods:														
	1958 <sup>16</sup> .....	429	433	74	5,405	17,651	4,623	8,778	13,185	31,227	28,740	60,178	842	96	84
	1954.....	(NA)	489	83	5,900	16,471	5,109	9,835	12,392	29,208	29,709	58,659	340	92	85
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,617	21,847	6,826	12,883	16,755	37,114	(NA)	(NA)	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,683	19,616	6,877	12,618	14,594	33,457	(NA)	(NA)	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,387	22,441	7,176	13,307	14,583	39,812	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,574	(NA)	6,235	11,827	(NA)	27,196	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	(NA)	544	113	9,016	19,882	7,901	15,924	15,209	31,696	29,698	61,394	668	(NA)	(NA)
	1939.....	(NA)	316	(NA)	6,214	6,355	5,217	(NA)	4,475	9,913	11,116	21,029	(NA)	(NA)	(NA)
	1937 <sup>15</sup> .....	(NA)	346	(NA)	(NA)	(NA)	6,748	(NA)	5,832	12,449	15,549	27,998	(NA)	(NA)	(NA)

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, value added by manufacture represents adjusted value added and for earlier years, unadjusted value added. For 1958 and 1954, cost of materials includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of such resales. Figures for years prior to 1935 do not include cost of contract work. For 1958 and 1954, value of shipments includes shipments of products bought for resale; for other years, excludes value of such resales. For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. For a description of these statistics, see Introduction, "Value Added by Manufacture," "Cost of Materials Consumed," and "Value of Shipments". Unadjusted value added for 1954, cost of materials excluding cost of resales, and value of shipments excluding values of resales, for 1954 and 1958, are shown below:

Industry Code	Value Added (\$1,000)	Cost of Materials, etc., (\$1,000)		Value of Shipments (\$1,000)	
		1958	1954	1958	1954
3151	23,185	25,191	23,015	50,695	46,201
3161	89,385	86,093	79,516	181,994	168,902
3171	92,968	115,765	95,814	226,252	188,782
3172	70,108	58,517	51,649	132,473	121,758
3199	27,211	24,991	23,601	54,580	50,812

<sup>4</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>5</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishment, both in and out of the specified industry. Also see tables 5A and 5B.<sup>6</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: Leather dress gloves and leather work gloves. The data for 1947-1954 for these two industries have been combined. Prior to 1947, leather work gloves and leather dress gloves constituted a single industry.<sup>7</sup>For 1958, the value figures represent value of production rather than value of shipments. Adjusted value added, in this industry, is equal to value of production (including resales of finished products) less cost of finished products, materials, fuels, electric energy and contract work, plus the net change in the value of work-in-process inventories between the beginning and end of the year, without adjustment for price changes.<sup>8</sup>This industry contains a number of very small establishments, some of which may have been misclassified as to industry in 1954. This would not affect the statistics other than the number of establishments.<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>10</sup>The figures for 1925-1958 do not include data for gloves and mittens of cloth and leather combined, whereas the figures for earlier years include data for these products.<sup>11</sup>The figures for 1899 include data for a few establishments making gloves and mittens from materials other than leather.<sup>12</sup>A revision in the definition of the Luggage industry was introduced in the 1957 Standard Industrial Classification so that the industry is not exactly comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text.<sup>13</sup>"Handbags and purses" and "Small leather goods" formerly constituted one industry. Separate figures for the years prior to 1939 are not available.<sup>14</sup>The 1957 Standard Industrial Classification combined in this industry two industries with several product revisions which were separate in the 1945 Standard Industrial Classification. These were Small leather goods (Old SIC Industry 3172) and Jewelry and Instrument Cases (Old SIC Industry 3986). The data for 1954 and earlier years for these two industries have been combined. The details of the revisions are described in the text.<sup>15</sup>Comparable figures for earlier years are not available.<sup>16</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were Saddlery, Harness and Whips (Old SIC Industry 3192) and Leather Goods, nec (Old SIC Industry 3199). The data for 1954 and earlier years for these two industries have been combined.



## LEATHER GLOVES, LUGGAGE, AND RELATED GOODS

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Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3151	Leather gloves, total <sup>2</sup> .....	179	76	6,212	15,999	5,503	9,214	12,705	25,999	54,155	263	26,917	23,185	211,577
	Northeast.....	99	39	3,166	8,240	2,753	4,431	6,347	13,211	27,481	158	3,822	11,435	7,137
	New York.....	91	34	2,838	7,369	2,468	3,932	5,702	11,805	25,248	146	3,359	10,116	6,618
	East North Central.....	40	22	2,037	5,228	1,854	3,220	4,923	8,675	17,815	57	(3)	(3)	(3)
	Illinois.....	10	5	579	1,399	550	1,001	1,278	2,830	6,162	(4)	(3)	(3)	(3)
	Wisconsin.....	17	11	882	2,572	776	1,389	1,971	3,547	6,997	(4)	1,006	4,147	2,123
	West North Central.....	8	5	312	796	279	474	614	1,186	2,888	(4)	(3)	(3)	(3)
	South.....	7	6	459	1,105	418	737	895	1,691	3,843	(4)	(3)	(3)	(3)
	Tennessee.....	4	4	316	775	285	492	597	1,218	2,598	(4)	(3)	(3)	(3)
	West.....	25	4	238	630	199	352	526	1,236	2,128	(4)	(3)	(3)	(3)
	California.....	13	3	149	413	125	227	330	941	1,438	12	(3)	(3)	(3)
3161	Luggage, total <sup>5</sup> .....	428	159	15,856	54,717	13,725	25,138	40,282	96,560	184,722	1,504	515,856	589,385	516,002
	New England.....	30	15	1,390	4,789	1,211	2,291	3,282	8,536	18,751	126	1,094	5,205	834
	Massachusetts..	22	10	657	1,900	586	1,078	1,467	3,086	6,038	60	830	3,886	671
	Middle Atlantic..	231	87	7,342	24,200	6,466	11,758	18,245	41,720	81,704	488	7,123	36,018	6,604
	New York.....	166	56	4,485	14,149	4,003	7,178	11,078	26,211	50,745	383	4,323	20,946	3,854
	New Jersey.....	33	20	2,091	7,734	1,813	3,384	5,411	11,524	22,323	64	1,934	11,056	1,478
	Pennsylvania...	32	11	766	2,317	650	1,196	1,756	3,985	8,636	(4)	865	4,015	1,272
	East North Central.....	83	30	1,907	6,797	1,561	2,859	4,853	11,124	20,695	121	2,490	12,074	4,129
	Ohio.....	12	3	166	620	116	227	366	965	1,738	(4)	241	1,172	802
	Illinois.....	48	17	1,006	3,575	857	1,569	2,710	5,984	11,367	65	1,493	7,468	1,787
	Michigan.....	7	3	150	464	122	205	285	976	1,797	(D)	(3)	(3)	(3)
	Wisconsin.....	12	4	489	1,852	374	689	1,223	2,835	5,098	(4)	611	2,510	1,219
	West North Central.....	16	7	1,034	3,101	889	1,645	2,356	4,729	9,464	100	1,178	5,361	1,334
	Missouri.....	12	7	1,014	3,076	872	1,617	2,334	4,679	9,342	(D)	(3)	(3)	(3)
	South.....	25	11	1,529	4,244	1,400	2,487	3,437	8,197	17,861	125	1,326	7,554	1,134
	West.....	43	9	2,654	11,586	2,198	4,098	8,109	22,254	36,247	544	2,641	23,171	1,967
	Washington.....	4	3	263	915	227	351	558	1,312	2,855	(D)	(3)	(3)	(3)
3171	Handbags and purses, total.....	620	262	21,953	68,632	19,443	37,231	54,258	111,496	231,110	1,575	22,881	92,968	20,378
	New England.....	26	17	2,269	7,081	2,023	3,811	5,743	10,662	20,798	78	2,130	8,397	2,345
	Massachusetts..	14	10	1,428	4,470	1,265	2,309	3,607	5,985	10,999	(4)	(3)	(3)	(3)
	Middle Atlantic..	503	216	17,756	55,693	15,695	30,150	43,679	90,255	191,047	1,321	18,365	75,032	16,540
	New York.....	446	176	13,357	42,894	11,644	22,363	33,290	69,911	151,319	1,037	13,845	59,646	12,561
	New Jersey.....	41	28	3,133	9,527	2,847	5,704	7,419	14,514	28,991	244	3,193	11,227	2,069
	Pennsylvania...	16	12	1,266	3,272	1,204	2,083	2,970	5,830	10,737	(4)	1,326	4,158	1,910
	East North Central.....	12	4	260	755	237	450	656	1,273	2,456	(4)	251	1,264	(D)
	Illinois.....	8	2	118	303	105	201	263	451	948	(4)	104	506	227
	West North Central.....	13	8	628	2,262	568	1,176	1,770	3,356	6,355	(4)	977	3,096	(D)
	Missouri.....	13	8	628	2,262	568	1,176	1,770	3,356	6,355	(4)	(3)	(3)	(3)
	South Atlantic....	24	7	331	742	292	497	608	2,014	2,845	54	327	1,321	204
	East South Central.....	9	1	103	193	87	145	164	442	815	(4)	35	115	
	West South Central.....	11	3	167	444	134	214	323	750	1,819	(4)	160	427	
	West.....	22	6	439	1,462	407	788	1,315	2,744	4,975	(4)	633	3,311	287
	California.....	19	6	423	1,421	394	767	1,282	2,668	4,820	(4)	613	3,256	287
3172	Small leather goods, total <sup>6</sup> .....	400	123	13,657	46,483	11,521	21,380	31,865	75,791	138,052	1,378	614,666	670,108	612,818
	New England.....	59	30	3,945	14,835	3,261	5,908	10,159	22,467	41,420	772	4,113	20,230	3,961
	Massachusetts..	26	15	2,409	9,338	1,916	3,330	5,764	13,222	22,837	341	(3)	(3)	(3)
	Middle Atlantic..	245	66	6,764	21,068	5,873	11,164	15,265	33,967	63,313	441	7,286	32,739	5,995
	New York.....	209	48	4,149	12,884	3,544	6,755	9,125	21,823	42,001	326	4,837	22,054	4,165
	New Jersey.....	25	13	1,958	6,163	1,758	3,282	4,738	9,282	16,442	85	1,875	8,309	1,130
	Pennsylvania...	11	5	657	2,021	571	1,127	1,402	2,862	4,870	(4)	574	2,376	700
	North Central....	51	19	2,257	8,652	1,796	3,226	4,992	15,843	27,205	119	2,730	15,084	(D)
	Ohio.....	9	3	206	731	157	287	483	1,080	1,958	(D)	(3)	(3)	(3)
	Illinois.....	26	10	696	2,278	611	1,086	1,720	4,186	7,623	(4)	(3)	(3)	(3)
	South.....	16	5	500	1,305	435	811	956	2,299	3,921	(4)	452	1,536	(D)
	West.....	29	3	191	623	156	271	493	1,215	2,193	(4)	85	519	(D)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3199	Leather goods, nec, total.....	433	74	5,405	17,651	4,623	8,778	13,185	31,227	60,178	842	75,900	727,211	79,016
	New England.....	42	6	500	1,613	396	757	1,072	2,475	4,841	(4)	(3)	(3)	(3)
	Massachusetts....	30	4	362	1,177	286	543	768	1,730	3,655	(4)	(3)	(3)	(3)
	Middle Atlantic...	173	37	2,325	8,016	1,990	3,745	5,924	14,100	26,598	278	(3)	(3)	(3)
	New York.....	140	30	1,906	6,507	1,652	3,065	4,777	11,736	21,879	194	(3)	(3)	(3)
	New Jersey.....	14	1	120	427	106	211	375	604	1,116	(4)	(3)	(3)	(3)
	Pennsylvania....	19	6	299	1,082	232	469	772	1,760	3,603	75	(3)	(3)	(3)
	East North Central.....	63	7	584	2,012	485	902	1,452	3,417	6,346	96	(3)	(3)	(3)
	Ohio.....	18	1	117	361	89	173	261	590	1,187	(4)	(3)	(3)	(3)
	Illinois.....	28	5	359	1,246	303	550	830	2,136	3,999	62	(3)	(3)	(3)
	West North Central.....	15	2	77	154	64	117	119	393	768	(4)	(3)	(3)	(3)
	South Atlantic....	20	7	792	2,407	713	1,378	1,891	3,748	6,688	(4)	553	2,264	1,665
	Georgia.....	8	3	454	1,468	427	817	1,203	2,206	4,360	(4)	(3)	(3)	
	East South Central.....	17	4	305	827	268	521	660	1,497	3,474	156	176	826	
	West South Central.....	29	4	231	704	205	406	597	1,575	3,719	(4)	235	939	
	West.....	74	7	591	1,918	502	952	1,470	4,022	7,744	172	577	3,120	850
	Colorado.....	9	2	126	432	116	210	386	846	1,582	(4)	(3)	(3)	(3)
	California.....	46	3	357	1,096	304	594	838	2,563	4,879	141	(3)	(3)	(3)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parentheses, the number of employees or the employment-size range for that State: SIC 3151, Leather Gloves: Northeast—New Hampshire, 1 (20-90); Vermont, 2 (20-90); Massachusetts, 1 (1-19); New Jersey, 1 (20-99); Pennsylvania, 3 (100-249); East North Central—Ohio, 5 (20-99); Indiana, 3 (100-249); Michigan, 5 (250-499); West North Central—Minnesota, 4 (20-90); Iowa, 2 (20-90); Missouri, 2 (100-249); South—Kentucky, 1 (20-99); Arkansas, 1 (100-249); Texas, 1 (1-19); West—Idaho, 2 (1-19); Washington, 6 (20-99); Oregon, 4 (20-99).

SIC 3161, Luggage: New England—New Hampshire, 2 (250-499); Rhode Island, 6 (250-499); East North Central—Indiana, 4 (20-99); West North Central—Iowa, 1 (1-19); North Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 1 (1-19); South—Delaware, 2 (100-249); Maryland, 3 (100-249); Virginia, 1 (250-499); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 4 (20-99); Kentucky, 1 (1-19); Tennessee, 3 (250-499); Mississippi, 1 (100-249); Arkansas, 1 (20-99); Oklahoma, 1 (100-249); Texas, 5 (20-99); West—Colorado, 3 (1,813); Oregon, 1 (20-99); California, 35 (500-999).

SIC 3171, Handbags and Purses: New England—Maine, 2 (1-19); Vermont, 1 (250-499); Rhode Island, 1 (1-19); Connecticut, 8 (250-499); East North Central—Ohio, 1 (1-19); Indiana, 2 (20-99); Wisconsin, 1 (100-249); South Atlantic—Virginia, 2 (20-99); North Carolina, 5 (20-99); Georgia, 1 (20-99); Florida, 16 (100-249); East South Central—Tennessee, 8 (20-99); Alabama, 1 (1-19); West North Central—Arkansas, 1 (20-99); Oklahoma, 3 (20-99); Texas, 7 (20-99); West—Arizona, 2 (1-19); Washington, 1 (1-19).

SIC 3172, Small Leather Goods: New England—Maine, 1 (1-19); Vermont, 1 (1-19); Rhode Island, 24 (500-999); Connecticut, 7 (500-999); North Central—Indiana, 2 (1-19); Michigan, 2 (1-19); Wisconsin, 5 (500-999); Minnesota, 1 (20-99); Iowa, 2 (1-19); Missouri, 4 (500-999); South—Maryland, 1 (1-19); North Carolina, 2 (20-99); Florida, 5 (20-99); Tennessee, 1 (1-19); Louisiana, 1 (100-249); Oklahoma, 2 (100-249); Texas, 4 (20-99); West—Colorado, 2 (1-19); Arizona, 1 (1-19); Washington, 1 (1-19); California, 25 (100-249).

SIC 3199, Leather Goods, NEC: New England—New Hampshire, 1 (1-19); Rhode Island, 5 (20-99); Connecticut, 6 (20-99); East North Central—Indiana, 3 (1-19); Michigan, 2 (20-99); Wisconsin, 12 (20-99); West North Central—Minnesota, 1 (1-19); Iowa, 1 (1-19); Missouri, 10 (20-99); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 3 (100-249); Virginia, 1 (20-99); North Carolina, 7 (20-99); Florida, 1 (100-249); East South Central—Kentucky, 4 (20-99); Tennessee, 11 (250-499); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Oklahoma, 3 (1-19); Texas, 26 (100-249); Mountain—Montana, 2 (1-19); Idaho, 3 (20-99); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 3 (20-99); Pacific—Washington, 1 (1-19); Oregon, 7 (1-19).

<sup>2</sup>See footnote 8 of table 1. In addition, for Industry 3151, value of production is collected in place of value of shipments.

<sup>3</sup>This State or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such states. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Less than \$50 thousand.<sup>5</sup>See footnote 12 of table 1.<sup>6</sup>See footnote 14 of table 1.<sup>7</sup>See footnote 16 of table 1.



Table 3.—Detailed Statistics for the United States: 1958

(For explanation of line captions, see Introduction )

Item	Leather gloves (SIC 3151)	Luggage (SIC 3161)	Handbags and purses (SIC 3171)	Small leather goods (SIC 3172)	Leather goods, nec (SIC 3199)
Primary product specialization ratio <sup>1</sup> .....	85	95	96	91	96
Coverage ratio <sup>2</sup> .....	86	95	98	87	84
Number of establishments, total.....	179	428	620	400	433
With 1-19 employees.....	103	269	358	277	359
With 20-99 employees.....	62	122	208	92	69
With 100 employees or more.....	14	37	54	31	5
Proprietors and working partners.....Number..	119	297	342	278	334
All employees:					
Number (average for the year).....	6,212	15,856	21,953	13,657	5,405
Payroll.....\$1,000..	15,999	54,717	68,632	46,483	17,651
Production workers:					
Number (average for the year).....	5,503	13,725	19,443	11,521	4,623
January.....	(NA)	12,220	18,798	10,296	4,270
February.....	(NA)	12,671	20,432	10,403	4,306
March.....	5,094	13,123	20,739	10,636	4,373
April.....	(NA)	13,005	17,804	10,083	4,360
May.....	5,434	13,350	16,280	9,972	4,432
June.....	(NA)	13,518	17,023	10,144	4,440
July.....	(NA)	13,647	19,070	10,752	4,640
August.....	6,074	14,118	19,914	11,925	4,884
September.....	(NA)	14,175	20,372	12,904	4,928
October.....	(NA)	14,435	20,891	13,761	4,957
November.....	5,898	14,326	20,831	13,625	4,965
December.....	(NA)	13,566	20,590	12,563	4,737
Man-hours.....1,000..	9,214	25,138	37,231	21,380	8,778
January-March.....do...	1,968	5,796	9,617	4,746	2,045
April-June.....do...	2,320	6,307	8,177	4,636	2,097
July-September.....do...	2,501	6,274	9,365	5,395	2,271
October-December.....do...	2,425	6,761	10,072	6,603	2,365
Wages.....\$1,000..	12,705	40,282	54,258	31,865	13,185
Cost of materials, etc., total.....do...	28,309	88,194	119,364	62,550	28,740
Materials, parts, containers, and supplies consumed.....do...	23,150	84,712	106,397	55,401	24,322
Cost of resales.....do...	3,118	2,101	3,599	4,033	3,749
Fuels consumed.....do...	128	256	169	317	108
Electricity purchased.....do...	147	640	645	570	215
Contract work.....do...	1,766	485	8,554	2,229	346
Value of shipments (including resales), total.....do...	<sup>3</sup> 54,155	184,722	231,110	138,052	60,178
Value of resales.....do...	3,460	2,778	4,858	5,579	5,598
Value added by manufacture, adjusted.....do...	25,999	96,560	111,496	75,791	31,227
Manufacturers' inventories:					
Beginning of year, total.....do...	11,167	27,345	20,295	19,551	8,704
Finished products.....do...	5,053	11,296	8,165	7,535	4,047
Work-in-process.....do...	2,058	3,992	4,335	3,925	1,162
Materials, supplies, fuel, etc.....do...	4,056	12,057	7,795	8,091	3,495
End of year, total.....do...	9,451	28,187	19,992	18,967	8,358
Finished products.....do...	4,114	11,608	7,971	7,474	3,870
Work-in-process.....do...	2,143	3,720	4,282	4,308	1,138
Materials, supplies, fuel, etc.....do...	3,194	12,859	7,739	7,185	3,350
Expenditures for plant and equipment, total.....do...	296	1,623	1,601	1,498	882
New, total.....do...	263	1,504	1,575	1,378	842
New structures and additions to plant.....do...	90	292	285	228	400
New machinery and equipment.....do...	173	1,212	1,290	1,150	442
Used plant and equipment.....do...	33	119	26	120	40

NA Not available.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>For Industry 3151, the figure represents value of production rather than value of shipments.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3151	Leather gloves:											
	Number of establishments.....	179	43	31	29	37	25	12	1	1	...	..
	All employees:											
	Number.....	6,212	94	205	433	1,211	1,845	<u>2,424</u>	(D)	(D)	...	...
	Payroll.....\$1,000..	15,999	212	416	1,041	3,131	4,906	<u>6,293</u>	(D)	(D)	...	...
	Value added, adjusted..do....	25,999	465	840	1,726	4,899	7,933	<u>10,136</u>	(D)	(D)	...	...
	Value of Production.....do....	54,155	985	2,525	3,785	9,707	16,234	<u>20,919</u>	(D)	(D)	...	...
	Capital expend., new...do....	263	( <sup>1</sup> )	( <sup>1</sup> )	60	85	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	...	...
3161	Luggage:											
	Number of establishments.....	428	133	66	70	87	35	26	9	1	1	...
	All employees:											
	Number.....	15,856	286	483	979	2,823	2,285	3,687	<u>5,313</u>	(D)	(D)	...
	Payroll.....\$1,000..	54,717	767	1,416	3,258	8,921	7,890	12,322	<u>20,143</u>	(D)	(D)	...
	Value added, adjusted..do....	96 560	1,928	2,530	5,480	14,668	11,869	19,837	<u>40,248</u>	(D)	(D)	...
	Value of shipments.....do....	184,722	4,317	4,997	11,040	29,644	22,892	40,749	<u>71,083</u>	(D)	(D)	...
	Capital expend., new...do....	1,504	77	( <sup>1</sup> )	106	195	150	197	<u>730</u>	(D)	(D)	...
3171	Handbags and purses:											
	Number of establishments.....	620	155	76	127	141	67	38	16	...	...	...
	All employees:											
	Number.....	21,953	329	522	1,774	4,357	4,598	5,719	4,654	...	...	...
	Payroll.....\$1,000..	68 632	910	1,478	4,959	13,259	14,980	17,834	15,212	...	...	...
	Value added, adjusted..do....	111,496	1,588	2,826	9 757	22,830	22,677	27,221	24,597	...	...	...
	Value of shipments.....do....	231,110	5,249	5,290	20,171	45,270	49,245	54,580	51,305	...	...	...
	Capital expend., new...do....	1,575	( <sup>1</sup> )	67	239	432	265	314	216	...	...	...
3172	Small leather goods:											
	Number of establishments.....	400	154	63	60	62	30	20	7	4	...	...
	All employees:											
	Number.....	13,657	315	414	824	1,976	2,069	2,825	2,564	2,670	...	...
	Payroll.....\$1,000..	46,483	891	1,203	2,547	5,783	6,933	9,086	10,152	9,888	...	...
	Value added, adjusted..do....	75,791	2,264	2,308	4,671	9,658	11,062	15,193	17,169	13,466	...	...
	Value of shipments.....do....	138,052	4,228	4,260	8,975	18,257	22,377	26,347	31,853	21,755	...	...
	Capital expend., new...do....	1,378	54	( <sup>1</sup> )	76	174	87	165	474	309	...	...
3199	Leather goods, nec:											
	Number of establishments.....	433	201	98	60	51	18	4	1	...	...	...
	All employees:											
	Number.....	5,405	357	654	815	1,537	1,294	<u>748</u>	(D)	...	...	...
	Payroll.....\$1,000..	17,651	960	2,039	2,487	5,177	4,570	<u>2,418</u>	(D)	...	...	...
	Value added, adjusted..do....	31,227	2,626	3,910	4,369	8,914	7,809	<u>3,599</u>	(D)	...	...	...
	Value of shipments.....do....	60,178	5,089	8,324	8,775	16,775	14,422	<u>6,793</u>	(D)	...	...	...
	Capital expend., new...do....	842	154	172	154	112	<u>250</u>	(D)	(D)	...	...	...

<sup>1</sup>Less than \$50 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3151	Leather gloves <sup>3</sup> .....1958..	54,155	42,599	7,389	4,167	85	49,319	42,599	6,720	86
	.....1954..	49,989	39,241	5,592	5,156	88	43,601	39,241	4,360	90
3161	Luggage <sup>4</sup> .....1958..	184,722	171,090	9,276	4,356	95	180,481	171,090	9,391	95
	.....1954..	172,691	157,254	9,415	6,022	94	158,949	(NA)	(NA)	( <sup>5</sup> )
3171	Handbags and purses.....1958..	231,110	210,769	9,375	10,966	96	214,106	210,769	3,337	98
	.....1954..	194,262	176,280	6,101	11,881	97	180,309	176,280	4,029	98
3172	Small leather goods <sup>6</sup> .....1958..	138,052	117,709	11,416	8,927	91	134,728	117,709	17,019	87
	.....1954..	124,164	(NA)	(NA)	5,044	(NA)	121,314	(NA)	(NA)	(NA)
3199	Leather goods, nec <sup>7</sup> .....1958..	60,178	51,449	2,092	6,637	96	61,198	51,449	9,749	84
	.....1954..	58,659	46,182	3,941	8,536	92	54,332	46,182	8,150	85

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>See footnote 6 of table 1.

<sup>4</sup>See footnote 12 of table 1.

<sup>5</sup>Over 90 percent.

<sup>6</sup>See footnote 14 of table 1.

<sup>7</sup>See footnote 16 of table 1.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Leather gloves industry	Leather gloves (SIC 3151)	Other industries	All industries	Prod. class code	Small leather goods industry	Small leather goods (SIC 3172)	Other industries	All industries	
31510	Value of production.....	54,155	xxx	xxx	31720	Value of shipments.....	138,052	xxx	xxx	
23811 23812	Dress and work gloves and mittens, all leather.....	42,599	6,720	49,319		Personal leather goods, except handbags and purses.....	117,709	17,019	134,728	
	Secondary products.....	7,389	xxx	xxx		Secondary products, total.....	11,416	xxx	xxx	
	Fabric dress gloves and mittens	4,226	xxx	xxx		Luggage.....	2,492	xxx	xxx	
	Fabric work gloves and mittens	2,619	xxx	xxx		Other secondary products.....	8,924	xxx	xxx	
	Other secondary products.....	544	xxx	xxx	31610	Miscellaneous receipts.....	8,927	xxx	xxx	
	Miscellaneous receipts, total...	4,167	xxx	xxx		Resales.....	5,579	xxx	xxx	
	Resales.....	3,460	xxx	xxx		Contract and commission work...	2,897	xxx	xxx	
	Other, including contract and commission receipts.....	707	xxx	xxx		Other miscellaneous receipts...	451	xxx	xxx	
Prod. class code	Luggage industry	Luggage (SIC 3161)	Small leather goods (SIC 3172)	Other industries	All industries	Prod. class code	Leather goods, nec, industry (SIC 3199)	Other industries	All industries	
31610	Value of shipments.....	184,722	xxx	xxx	xxx	31990	Value of shipments.....	60,178	xxx	xxx
	Suitcases, briefcases, bags, and musical instrument cases.....	171,090	2,492	6,899	180,481		Saddlery, harness and whips and other leather products, nec....	51,449	9,749	61,198
	Secondary products.....	9,276	xxx	xxx	xxx		Secondary products.....	2,092	xxx	xxx
	Miscellaneous receipts, total...	4,356	xxx	xxx	xxx		Miscellaneous receipts, total...	6,637	xxx	xxx
	Resales.....	2,778	xxx	xxx	xxx		Resales.....	5,598	xxx	xxx
	Other, including contract and commission receipts.....	1,578	xxx	xxx	xxx	Other miscellaneous receipts..	1,039	xxx	xxx	
Prod. class code	Handbags and purses industry	Handbags and purses (SIC 3171)	Other industries	All industries	31990	Value of shipments.....	60,178	xxx	xxx	
31710	Value of shipments.....	231,110	xxx	xxx	31990	Saddlery, harness and whips and other leather products, nec....	51,449	9,749	61,198	
	Ladies' and children's handbags and purses.....	210,769	3,337	214,106		Secondary products.....	2,092	xxx	xxx	
	Secondary products.....	9,375	xxx	xxx		Miscellaneous receipts, total...	6,637	xxx	xxx	
	Miscellaneous receipts, total...	10,966	xxx	xxx		Resales.....	5,598	xxx	xxx	
	Resales.....	4,858	xxx	xxx		Other miscellaneous receipts..	1,039	xxx	xxx	
	Other, including contract and commission receipts.....	6,108	xxx	xxx						

xxx Not applicable.



## LEATHER GLOVES, LUGGAGE, AND RELATED GOODS

31B-13

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	1958		1954		
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
			TOTAL PRODUCTION				
3151---	Leather gloves, total <sup>1</sup> .....	1,000 dozen pairs	22,272	249,319	(NA)	43,601	
3151012	Leather dress and semi-dress gloves and mittens: Men's and boys', total.....	...do.....	705	20,469	625	16,138	
3151014	Block cut.....	...do.....	556	20,469	{	491	12,033
3151018	Table cut.....	...do.....	68			59	2,014
3151016	All other, including pattern and pull-down cut.....	...do.....	81			75	2,091
3151052	Women's, misses', and children's, total.....	...do.....	288	9,056	219	6,874	
3151054	Block cut.....	...do.....	154	9,056	{	96	2,580
3151058	Table cut.....	...do.....	83			96	3,394
3151056	All other, including pattern and pull-down cut.....	...do.....	51			27	900
3151079	Leather work gloves and mittens, total.....	...do.....	1,279	19,794	1,212	17,086	
3151071	All grain, except welders'.....	...do.....	906	19,794	{	780	10,928
3151072	All split, except welders'.....	...do.....	223			280	3,260
3151073	Welders'.....	...do.....	113			102	2,011
3151074	All other leather work gloves and mittens.....	...do.....	37			50	887
3151000	Leather gloves, not specified by kind.....	.....	xxx	...	xxx	3,503	
			TOTAL SHIPMENTS INCLUDING INTERPLANT TRANSFERS				
3161---	Luggage, total.....	.....	xxx	180,481	xxx	3158,949	
	Women's hand luggage: Overnight, week-end, pullman, and fitted cases, total.....	1,000 units.....	7,848	51,324	7,297	49,375	
3161011	All-leather and chiefly leather.....	...do.....	189	1,810	774	6,189	
3161013	Plastic and chiefly plastic.....	...do.....	4,004	27,817	6,523	43,186	
3161019	All other materials.....	...do.....	3,655	21,697			
	Train boxes, hat and shoe boxes, total.....	...do.....	3,012	16,627	3,002	15,181	
3161021	All-leather and chiefly leather.....	...do.....	21	239	72	843	
3161023	Plastic and chiefly plastic.....	...do.....	682	4,978	2,930	14,338	
3161029	All other materials, except paper or paperboard.....	...do.....	2,309	11,410			
	Men's two-suiters, gladstones, suitcases, and end-opening wardrobe cases, total.....	...do.....	1,825	23,317	1,964	23,122	
3161031	All leather and chiefly leather.....	...do.....	190	4,020	535	8,601	
3161033	Plastic and chiefly plastic.....	...do.....	515	6,278	1,429	14,521	
3161039	All other materials.....	...do.....	1,120	13,019			
3161043	Men's club and overnight bags.....	1,000 units.....	1,346	9,650	2,260	9,118	
3161053	Occupational luggage cases, sample cases, binocular and camera cases.....	...do.....	(NA)	14,308	(NA)	9,285	
3161063	Trunks, hand trunks, and lockers.....	...do.....	664	5,291	872	6,748	
3161073	Brief cases, zipper cases, brief bags and school bags, total...	...do.....	7,039	20,054	(NA)	15,730	
	Quantity reported.....	...do.....	7,039	20,054	5,362	13,316	
	Quantity not reported.....	...do.....	xxx	xxx	xxx	2,414	
3161081	Musical instrument cases.....	.....	xxx	4,096	xxx	(3)	
3161098	Other luggage, including luggage handles and trimmings.....	.....	xxx	19,570	xxx	15,811	
3161000	Luggage, not specified by kind.....	.....	xxx	16,244	xxx	14,579	
3171---	Handbags and purses, total.....	.....	xxx	214,106	xxx	180,309	
3171011	Ladies'and children's handbags and purses: All leather and chiefly leather, total.....	1,000 units.....	15,685	72,826	(NA)	67,959	
	Quantity reported.....	...do.....	15,685	72,826	16,024	61,442	
	Quantity not reported.....	.....	xxx	...	xxx	6,517	
3171051	Plastic or chiefly plastic.....	1,000 units.....	48,131	75,260	38,651	59,051	
3171071	Other materials.....	...do.....	11,909	36,065	10,374	29,607	
3171098	Other handbags and purses.....	.....	xxx	29,955	{	xxx	7,752
3171000	Women's handbags and purses, not specified by kind.....	.....				xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3172---	Small leather goods, total.....	.....	xxx	134,728	xxx	121,314
	Billfold, wallets, and French purses, total.....	1,000 units.....	36,663	57,034	31,550	41,716
3172011	All-leather and chiefly leather.....	...do.....	27,608	52,102	19,706	35,326
3172015	Plastic and chiefly plastic.....	...do.....	8,755	4,754	11,632	6,214
3172017	Other materials.....	...do.....	300	178	212	176
3172019	Other small personal goods made of leather and related materials such as key cases, cigarette cases, tobacco pouches, cosmetic bags, etc.....	.....	xxx	11,622	xxx	9,151
3172031	Men's travel kits (including toilet cases).....	1,000 units.....	1,620	3,934	1,579	3,638
3172051	Jewelry cases and instrument cases, except musical instrument cases.....	.....	xxx	55,697	xxx	<sup>3</sup> 59,663
3172000	Small leather goods, not specified by kind.....	.....	xxx	6,441	xxx	7,146
3199---	Leather goods, nec, total.....	.....	xxx	61,198	xxx	54,332
3199011	Leather novelties.....	.....	xxx	20,177	xxx	13,789
3199031	Saddlery, harness and accoutrements.....	.....	xxx	14,178	xxx	10,920
3199098	Other leather goods, nec.....	.....	xxx	10,358	xxx	29,623
3199000	Leather goods, nec.....	.....	xxx	16,485	xxx	...

\*Revised. †Revised

NA Not available.

xxx Not applicable.

<sup>1</sup>Includes only all leather gloves and mittens. Leather-and-fabric combinations are classified in Industry 2381 "Fabric Gloves."<sup>2</sup>For 1958, the value of production was obtained from the 1958 Census of Manufactures; the quantities produced were obtained from the annual Current Industrial Report MA-23D, "Gloves and Mittens."<sup>3</sup>For 1954, musical instrument cases (code 3161081) were included with jewelry and instrument cases (code 3172051). Separate data for 1954 are not available.

Table 7.—Materials Consumed, by Kind: 1958

Code	Material	Unit of measure	Quantity	Delivered cost (\$1,000)
INDUSTRY 3151—LEATHER GLOVES				
	Materials, containers, and supplies, total.....	.....	xxx	23,150
223112	Broad-woven fabrics (piece goods).....	1,000 lin. yds....	(NA)	2,581
311110	Finished leather.....	1,000 sq. ft.....	56,223	14,752
970099	All other materials, containers, and supplies.....	.....	xxx	4,065
973000	Materials, containers, and supplies, not specified by kind.....	.....	xxx	1,752
INDUSTRY 3161—LUGGAGE				
	Materials, containers, and supplies, total.....	.....	xxx	84,712
	Broad-woven fabrics (piece goods):			
223331	Cotton.....	1,000 lin. yds....	2,421	1,180
223415	Rayon and acetate.....	...do.....	10,037	3,461
223455	Other broad-woven fabrics.....	...do.....	1,290	805
282315	Unsupported plastic film and sheeting (excluding packaging materials).....	1,000 sq. yds....	7,122	4,182
229511	Coated, impregnated, or laminated fabrics.....	1,000 lin. yds....	13,446	11,125
311110	Finished leather.....	1,000 sq. ft.....	20,558	6,919
970099	Other materials, parts, containers, and supplies.....	.....	xxx	43,337
973000	Materials, containers, and supplies, not specified by kind.....	.....	xxx	13,703
INDUSTRY 3171—HANDBAGS AND PURSES				
	Materials, containers, and supplies, total.....	.....	xxx	106,397
	Broad-woven fabrics (piece goods):			
223331	Cotton.....	1,000 lin. yds....	1,874	1,660
223415	Rayon and acetate.....	...do.....	7,686	3,408
223455	Other broad-woven fabrics.....	...do.....	3,357	3,981
282315	Unsupported plastic film and sheeting (excluding packaging materials).....	1,000 sq. yds....	11,445	7,449
229511	Coated, impregnated, or laminated fabrics.....	1,000 lin. yds....	12,575	9,895
311110	Finished leather.....	1,000 sq. ft.....	53,428	25,559
970099	Other materials, parts, containers and supplies.....	.....	xxx	32,144
973000	Materials, containers, and supplies, not specified by kind.....	.....	xxx	22,301
INDUSTRY 3199—LEATHER GOODS, NEC				
	Materials, containers, and supplies, total.....	.....	xxx	24,322
311110	Finished leather.....	1,000 sq. ft.....	21,652	8,368
970099	Other materials, parts, containers, and supplies.....	.....	xxx	9,573
973000	Materials, containers, and supplies, not specified by kind.....	.....	xxx	6,381

xxx Not applicable.

NA Not available.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3151	LEATHER GLOVES (entire industry).....	179	6,212	15,999	5,503	9,214	12,705	25,999	28,309	54,155	263
	Establishments with:										
	90% or more specialization.....	136	3,732	9,453	3,300	5,565	7,681	15,404	16,386	31,709	188
	75-89% specialization.....	18	778	1,881	697	1,114	1,533	3,162	3,750	6,949	( <sup>1</sup> )
3161	LUGGAGE (entire industry).....	428	15,856	54,717	13,725	25,138	40,282	96,560	88,194	184,722	1,504
	Establishments with:										
	90% or more specialization.....	380	12,982	44,636	11,263	20,568	33,232	80,312	73,905	154,243	1,284
	75-89% specialization.....	13	1,098	4,537	883	1,661	2,941	7,867	6,502	14,419	57
3171	HANDBAGS AND PURSES (entire industry)..	620	21,953	68,632	19,443	37,231	54,258	111,496	119,364	231,110	1,575
	Establishments with:										
	90% or more specialization.....	535	19,239	59,436	17,048	32,625	47,140	96,161	105,710	202,202	1,427
	75-89% specialization.....	10	266	720	233	474	580	1,481	1,170	2,676	( <sup>1</sup> )
3172	SMALL LEATHER GOODS (entire industry)..	400	13,657	46,483	11,521	21,380	31,865	75,791	62,550	138,052	1,378
	Establishments with:										
	90% or more specialization.....	331	9,470	31,874	8,038	14,770	21,657	54,644	44,539	98,535	942
	75-89% specialization.....	22	849	3,075	702	1,336	1,995	4,921	4,019	9,079	67
3199	LEATHER GOODS, NEC (entire industry)...	433	5,405	17,651	4,623	8,778	13,185	31,227	28,740	60,178	842
	Establishments with:										
	90% or more specialization.....	383	4,570	14,702	3,929	7,432	11,141	26,210	24,003	50,314	796
	75-89% specialization.....	11	308	1,169	253	494	732	2,081	2,242	4,362	( <sup>1</sup> )

<sup>1</sup>Less than \$50 thousand.





# Major Group 32.—Stone, Clay, and Glass Products

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone products, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When

separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified with the manufacturing operations and classified herein.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item <sup>1</sup>	Establishments, number		All employees <sup>2</sup>		Production workers			Value added by manu- facture, adjusted <sup>3</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	575,717	2,759,639	445,866	883,823	1,933,949	5,528,952	442,286
Administrative and auxiliary establishments <sup>4</sup>	(NA)	(NA)	21,675	164,668	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	15,022	4,478	554,042	2,594,971	445,866	883,823	1,933,949	5,528,952	442,286
Operating manufacturing establishments (based on old SIC).....	11,393	3,545	492,796	2,296,573	402,391	796,919	1,735,555	4,860,925	371,807
Operating manufacturing establishments:									
1957 <sup>5</sup> .....	(NA)	(NA)	525,597	2,354,451	437,099	869,338	1,802,722	4,980,460	655,457
1956 <sup>5</sup> .....	(NA)	(NA)	535,998	2,344,539	450,087	911,127	1,814,726	5,035,547	724,835
1955 <sup>5</sup> .....	(NA)	(NA)	524,729	2,177,539	442,295	899,357	1,703,041	4,637,225	460,865
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	504,436	2,023,427	412,031	827,012	1,496,029	3,866,229	300,647
Administrative and auxiliary establishments <sup>4</sup>	(NA)	(NA)	12,622	85,342	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	11,162	(NA)	491,814	1,938,085	412,031	827,012	1,496,029	3,866,229	300,647
Operating manufacturing establishments:									
1953 <sup>5</sup> .....	(NA)	(NA)	506,439	1,948,876	430,888	873,011	1,538,450	3,752,912	281,715
1952 <sup>5</sup> .....	10,435	(NA)	510,353	1,841,507	435,680	895,027	1,456,600	3,531,294	250,766
1951 <sup>5</sup> .....	10,700	(NA)	529,069	1,827,834	455,373	945,593	1,458,753	3,560,697	322,702
1950 <sup>5</sup> .....	9,707	(NA)	490,568	1,529,473	418,153	862,831	1,220,126	3,138,263	222,652
1949 <sup>5</sup> .....	(NA)	(NA)	453,192	1,323,196	387,496	778,449	1,044,203	2,450,931	190,986
1947.....	11,643	(NA)	461,037	1,206,903	404,930	838,320	991,966	2,298,521	285,066
1939.....	6,678	(NA)	313,467	410,365	267,094	(NA)	307,248	856,323	(NA)
1937.....	6,114	(NA)	330,709	419,452	297,404	(NA)	345,524	860,063	(NA)
1935.....	5,846	(NA)	265,065	292,773	234,781	(NA)	227,777	599,530	(NA)
1933.....	4,657	(NA)	(NA)	(NA)	175,145	(NA)	144,078	404,148	(NA)
1931.....	6,549	(NA)	(NA)	(NA)	233,744	(NA)	249,551	615,728	(NA)
1929.....	8,688	(NA)	371,950	548,216	330,708	(NA)	435,865	1,053,908	(NA)
1927.....	8,574	(NA)	389,733	574,850	348,142	(NA)	463,015	1,022,786	(NA)
1925.....	8,391	(NA)	391,797	565,247	351,136	(NA)	466,357	1,042,452	(NA)
1923.....	8,209	(NA)	388,603	543,474	348,578	(NA)	450,660	990,128	(NA)
1921.....	8,227	(NA)	282,113	377,080	251,157	(NA)	305,449	605,136	(NA)
1919.....	12,326	(NA)	330,605	396,901	294,590	(NA)	323,718	680,214	(NA)
1914.....	14,693	(NA)	404,738	248,920	335,325	(NA)	206,161	379,247	(NA)
1909.....	16,207	(NA)	371,734	223,715	343,864	(NA)	189,992	352,306	(NA)
1904.....	10,744	(NA)	304,725	170,693	285,740	(NA)	148,846	270,915	(NA)
1899.....	11,471	(NA)	242,873	115,553	230,013	(NA)	102,351	185,273	(NA)

NA Not available.

<sup>1</sup>The figures for all years except 1947 include value of ready-mixed concrete shipped by establishments primarily engaged in manufacturing other products. The value of such products in 1939 and 1954 represented less than two percent of the total value of products for the stone, clay and glass products group. Figures for years prior to 1939 also include establishments primarily engaged in producing ready-mixed concrete. Figures for all years except 1939 and 1947 include quarries operated in conjunction with lime plants and establishments producing cut stone in conjunction with the operation of a quarry. Figures for 1931-1937 include quarries operated in conjunction with plants grinding, pulverizing or otherwise treating minerals and earth, but for 1929 and earlier years exclude the minerals ground or treated industry. If 1939 data were on the same basis as for most earlier years, the number of employees would be increased by four percent and the value added by manufacture by five percent. Figures for years prior to 1937 include some establishments primarily engaged in producing wallboard and plaster building insulation and floor composition. If such establishments had been included in the figures for the stone, clay and glass products group in 1937, the value of products would have been increased by about three percent. Figures for 1954 and for all years prior to 1929 include quarries operated in conjunction with cement plants.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, with adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year.

<sup>4</sup>Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these establishments are not available for the years 1955-1957 or prior to 1949.

<sup>5</sup>The figures for 1955-1957 and 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
32	STONE, CLAY AND GLASS PRODUCTS, TOTAL	15 022	4 478	554 042	2 594 971	445 866	883 823	1 933 949	5 528 952	442 286	(*)	(*)
	NEW ENGLAND . . . . .	844	230	25 649	126 003	18 818	37 667	83 452	226 180	19 873	(*)	(*)
	MAINE . . . . .	51	15	1 049	4 254	853	1 692	3 166	10 083	704	(*)	(*)
	NEW HAMPSHIRE . . . . .	61	14	1 451	6 030	1 171	2 329	4 449	11 197	758	(*)	(*)
	VERMONT . . . . .	147	44	4 200	17 313	3 447	6 857	13 614	26 623	1 059	(*)	(*)
	MASSACHUSETTS . . . . .	329	88	11 028	59 075	7 504	14 975	35 485	107 065	12 265	(*)	(*)
	RHODE ISLAND . . . . .	60	11	1 919	8 948	1 422	2 865	6 432	17 162	615	(*)	(*)
	CONNECTICUT . . . . .	196	58	6 002	30 383	4 421	8 949	20 306	54 050	4 472	(*)	(*)
	MIDDLE ATLANTIC . . . . .	2 783	906	136 019	663 436	108 550	215 324	490 038	1 282 046	92 382	(*)	(*)
	NEW YORK . . . . .	1 096	268	40 742	207 806	30 849	62 154	142 795	384 423	32 692	(*)	(*)
	NEW JERSEY . . . . .	554	209	32 550	156 186	25 996	52 634	116 129	304 222	16 374	(*)	(*)
	PENNSYLVANIA . . . . .	1 133	429	62 727	299 444	51 705	100 536	231 114	593 401	43 316	(*)	(*)
	EAST NORTH CENTRAL . . . . .	3 593	1 086	152 716	747 963	124 696	244 972	566 682	1 571 404	109 275	(*)	(*)
	OHIO . . . . .	1 084	419	64 434	307 019	52 943	101 693	237 016	623 881	40 790	(*)	(*)
	INDIANA . . . . .	532	179	26 811	125 752	22 233	44 559	97 048	256 101	22 802	(*)	(*)
	ILLINOIS . . . . .	835	258	37 724	192 767	31 127	61 925	146 915	418 759	25 245	(*)	(*)
	MICHIGAN . . . . .	728	152	17 425	89 944	13 436	26 860	63 319	207 976	14 669	(*)	(*)
	WISCONSIN . . . . .	414	78	6 322	32 481	4 957	9 935	22 384	64 687	5 769	(*)	(*)
	WEST NORTH CENTRAL . . . . .	1 331	313	37 184	175 315	29 579	59 203	129 674	455 638	43 702	(*)	(*)
	MINNESOTA . . . . .	332	77	8 298	38 781	6 509	12 814	27 929	104 583	6 638	(*)	(*)
	IOA . . . . .	291	55	5 888	27 016	4 781	9 886	20 536	83 240	10 423	(*)	(*)
	MISSOURI . . . . .	363	96	14 113	69 716	10 988	21 734	50 965	160 219	14 877	(*)	(*)
	NORTH DAKOTA . . . . .	33	5	383	1 500	311	590	1 159	3 507	691	(*)	(*)
	SOUTH DAKOTA . . . . .	45	8	601	2 424	483	991	1 709	4 769	535	(*)	(*)
	NEBRASKA . . . . .	97	20	1 813	7 453	1 474	2 896	5 073	22 576	3 111	(*)	(*)
	KANSAS . . . . .	170	52	6 088	28 425	5 033	10 292	22 303	76 744	7 427	(*)	(*)
	SOUTH ATLANTIC . . . . .	2 023	683	74 513	297 356	61 718	121 228	228 416	614 085	50 462	(*)	(*)
	DELAWARE . . . . .	40	13	775	2 930	558	963	1 892	7 049	452	(*)	(*)
	MARYLAND . . . . .	200	67	8 486	41 229	6 884	14 066	30 774	94 268	6 720	(*)	(*)
	DISTRICT OF COLUMBIA . . . . .	15	9	676	3 220	597	1 333	2 558	7 037	561	(*)	(*)
	VIRGINIA . . . . .	233	92	7 786	29 808	6 458	13 366	22 360	75 839	4 185	(*)	(*)
	WEST VIRGINIA . . . . .	188	87	21 590	95 051	19 030	34 080	80 170	156 607	6 942	(*)	(*)
	NORTH CAROLINA . . . . .	303	100	7 897	25 544	6 447	12 864	17 901	50 504	4 418	(*)	(*)
	SOUTH CAROLINA . . . . .	137	49	5 306	19 159	4 359	9 092	14 541	44 748	4 212	(*)	(*)
	GEORGIA . . . . .	317	96	9 575	33 527	8 013	15 794	25 203	72 137	7 541	(*)	(*)
	FLORIDA . . . . .	590	170	12 422	46 888	9 372	19 670	33 017	105 896	15 431	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	838	245	28 128	113 675	23 186	46 136	86 084	264 154	24 770	(*)	(*)
	KENTUCKY . . . . .	203	42	5 443	22 694	4 459	8 491	17 080	47 081	4 427	(*)	(*)
	TENNESSEE . . . . .	263	71	10 423	43 689	8 536	17 258	32 504	96 517	7 078	(*)	(*)
	ALABAMA . . . . .	237	88	8 250	33 070	6 892	13 596	25 646	84 371	9 900	(*)	(*)
	MISSISSIPPI . . . . .	135	44	4 012	14 222	3 299	6 791	10 854	36 185	3 365	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	1 142	377	37 958	157 622	30 883	63 405	118 731	404 745	41 089	(*)	(*)
	ARKANSAS . . . . .	105	29	3 377	13 584	2 885	5 970	11 247	31 238	2 178	(*)	(*)
	LOUISIANA . . . . .	195	57	6 605	29 743	5 375	10 870	22 970	70 532	5 449	(*)	(*)
	OKLAHOMA . . . . .	167	48	6 748	28 817	5 689	11 370	23 215	66 649	10 441	(*)	(*)
	TEXAS . . . . .	675	243	21 228	85 478	16 934	35 195	61 299	236 326	23 021	(*)	(*)
	MOUNTAIN . . . . .	626	162	12 983	61 866	10 181	20 637	45 488	146 859	13 858	(*)	(*)
	MONTANA . . . . .	55	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	IDAHO . . . . .	60	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WYOMING . . . . .	36	3	545	2 448	429	794	2 005	5 181	525	(*)	(*)
	COLORADO . . . . .	175	43	4 079	18 991	3 289	6 501	14 258	43 978	3 541	(*)	(*)
	NEW MEXICO . . . . .	67	19	1 066	4 425	827	1 749	2 930	8 064	1 611	(*)	(*)
	ARIZONA . . . . .	102	27	2 096	10 966	1 549	3 174	7 440	25 013	2 211	(*)	(*)
	UTAH . . . . .	101	38	2 604	12 285	2 060	4 304	9 400	32 787	2 854	(*)	(*)
	NEVADA . . . . .	30	10	946	5 396	746	1 652	4 073	14 277	1 738	(*)	(*)
	PACIFIC . . . . .	1 842	476	48 892	251 735	38 255	75 251	185 384	563 841	46 875	(*)	(*)
	WASHINGTON . . . . .	240	60	4 910	26 626	3 767	7 184	18 657	53 228	4 291	(*)	(*)
	OREGON . . . . .	187	30	2 701	13 558	2 152	4 133	10 368	26 331	2 604	(*)	(*)
	CALIFORNIA . . . . .	1 415	386	41 281	211 551	32 336	63 934	156 359	484 282	39 980	(*)	(*)
32 EXC. 3273	STONE, CLAY AND GLASS PRODUCTS (EXCLUDING READY-MIXED CONCRETE) <sup>1</sup> .	11 375	3 534	492 152	2 293 364	401 811	795 739	1 732 972	4 852 890	371 296	491 814	3 821 659
	NEW ENGLAND . . . . .	717	187	23 278	113 043	17 210	34 356	75 210	194 249	17 356	23 734	160 043
	MAINE . . . . .	39	10	795	3 291	645	1 305	2 497	8 209	550	786	6 389
	NEW HAMPSHIRE . . . . .	49	13	1 344	5 570	1 082	2 172	4 073	10 177	642	1 609	10 146
	MASSACHUSETTS . . . . .	282	66	10 014	52 797	6 838	13 508	31 595	89 862	11 091	10 399	76 191
	RHODE ISLAND . . . . .	48	8	1 763	8 144	1 313	2 624	5 854	15 440	433	2 003	14 443
	CONNECTICUT . . . . .	156	46	5 195	26 149	3 912	7 941	17 754	44 368	3 634	4 901	32 683
	MIDDLE ATLANTIC . . . . .	2 360	785	127 754	619 451	102 657	203 306	460 503	1 184 096	82 858	135 232	1 033 041
	NEW YORK . . . . .	927	226	37 614	189 605	28 611	57 675	131 000	346 490	29 145	39 140	316 646
	NEW JERSEY . . . . .	466	180	30 608	145 756	24 601	49 668	108 807	280 245	14 365	31 250	221 271
	PENNSYLVANIA . . . . .	967	379	59 532	284 090	49 445	95 963	220 696	557 361	39 348	64 841	495 123
	EAST NORTH CENTRAL . . . . .	2 755	887	140 526	680 028	116 192	228 095	522 774	1 426 082	94 991	143 385	1 147 760
	OHIO . . . . .	868	366	60 867	287 433	50 501	96 813	224 399	580 732	36 637	64 719	480 367
	INDIANA . . . . .	409	148	24 985	116 241	20 927	42 085	90 855	237 866	20 613	23 926	179 295
	ILLINOIS . . . . .	631	211	34 771	175 037	29 021	57 599	135 000	377 482	21 102	32 684	286 778
	MICHIGAN . . . . .	541	110	14 918	76 035	11 740	23 446	54 898	180 099	12 518	17 349	164 432
	WISCONSIN . . . . .	306	52	4 985	25 282	4 003	8 152	17 622	49 903	4 121	4 704	36 186
	WEST NORTH CENTRAL . . . . .	906	240	31 317	148 044	25 348	50 932	111 015	386 450	36 052	32 289	285 846
	IOWA . . . . .	181	45	4 894	22 594	4 092	8 567	17 650	71 700	8 821	5 381	54 229
	MISSOURI . . . . .	260	73	11 959	59 459	9 406	18 679	43 581	134 955	13 345	14 495	125 287
	SOUTH DAKOTA . . . . .	30	6	449	1 758	376	772	1 311	3 237	291	387	2 519
	KANSAS . . . . .	105	39	5 240	24 282	4 361	8 878	19 201	65 920	6 109	5 296	56 053

See footnotes at end of table.



## STONE, CLAY, AND GLASS PRODUCTS

32-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	STONE, CLAY AND GLASS PRODUCTS (EXCLUDING READY-MIXED CONCRETE)—CONTINUED											
	SOUTH ATLANTIC . . . . .	1 581	529	64 776	258 862	54 702	107 077	202 885	525 573	41 035	61 378	385 248
	DELAWARE . . . . .	29	8	478	1 775	358	686	1 302	3 897	268	522	3 213
	MARYLAND . . . . .	160	52	7 695	37 397	6 422	13 161	28 939	87 966	6 135	7 080	58 304
	DISTRICT OF COLUMBIA . . . . .	11	5	310	1 229	290	643	1 074	4 283	105	243	1 557
	VIRGINIA . . . . .	172	76	6 519	24 250	5 424	11 004	18 047	60 901	3 134	6 465	46 422
	NORTH CAROLINA . . . . .	236	85	6 723	21 995	5 486	11 216	15 187	41 371	3 250	6 592	31 827
	SOUTH CAROLINA . . . . .	100	40	4 805	17 474	3 987	8 324	13 361	40 136	3 745	4 147	23 488
	FLORIDA . . . . .	445	110	8 726	32 639	6 914	14 555	23 928	70 669	11 098	5 325	36 843
	EAST SOUTH CENTRAL . . . . .	613	200	24 731	100 966	20 739	41 085	77 645	233 966	20 990	22 899	157 902
	KENTUCKY . . . . .	138	34	4 607	19 361	3 889	7 430	14 868	40 631	3 572	4 589	31 237
	TENNESSEE . . . . .	202	55	9 483	39 703	7 850	15 573	29 810	85 863	6 152	8 483	48 103
	ALABAMA . . . . .	187	75	7 378	29 970	6 244	12 331	23 529	76 283	9 103	7 310	59 171
	MISSISSIPPI . . . . .	86	36	3 263	11 932	2 756	5 751	9 438	31 189	2 163	2 515	19 390
	WEST SOUTH CENTRAL . . . . .	759	278	30 884	127 634	25 666	52 371	97 913	333 652	32 667	27 096	241 775
	OKLAHOMA . . . . .	98	39	5 770	24 621	4 897	9 779	19 771	57 000	9 375	5 847	48 451
	TEXAS . . . . .	462	179	17 261	68 252	14 140	29 116	50 177	194 217	17 793	13 729	133 789
	MOUNTAIN . . . . .	410	109	9 662	45 015	7 764	15 792	33 984	110 883	9 430	8 085	76 671
	MONTANA . . . . .	31	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	IDAHO . . . . .	35	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WYOMING . . . . .	18	2	374	1 708	289	559	1 427	3 536	156	361	2 704
	COLORADO . . . . .	134	51	3 453	15 715	2 788	5 533	11 762	35 982	2 923	2 787	23 231
	NEW MEXICO . . . . .	39	11	568	2 193	465	1 040	1 540	3 808	785	386	1 697
	ARIZONA . . . . .	68	16	1 253	6 061	1 011	2 003	4 458	14 825	1 092	1 005	8 480
	UTAH . . . . .	65	26	2 028	9 557	1 658	3 454	7 563	26 719	2 206	1 627	21 000
	NEVADA . . . . .	20	6	771	4 383	618	1 383	3 342	12 434	1 477	945	9 696
	PACIFIC . . . . .	1 274	319	39 224	200 321	31 533	62 725	151 043	457 939	35 917	37 714	334 368
	WASHINGTON . . . . .	161	34	3 246	17 355	2 559	5 044	12 614	35 057	2 883	3 331	26 713
	OREGON . . . . .	107	16	1 682	8 770	1 365	2 737	6 958	16 111	1 089	1 266	9 720
	CALIFORNIA . . . . .	1 006	269	34 296	174 196	27 609	54 944	131 471	406 771	31 945	33 115	297 934
321	FLAT GLASS, TOTAL <sup>1</sup> . . . . .	32	31	21 179	133 551	17 625	35 867	110 675	263 151	12 057	24 559	252 313
322	PRESSED AND BLOWN GLASSWARE, TOTAL . . . . .	240	190	92 045	431 307	79 108	156 596	350 209	844 811	42 418	91 334	674 382
	MIDDLE ATLANTIC . . . . .	70	55	32 769	153 910	27 664	54 756	121 151	268 623	14 738	33 719	233 944
	PENNSYLVANIA . . . . .	36	33	14 698	63 924	13 203	25 168	54 285	119 586	5 496	15 214	94 680
	EAST NORTH CENTRAL . . . . .	58	50	28 487	134 450	24 511	48 300	110 249	281 715	11 999	29 145	230 448
	OHIO . . . . .	28	24	11 850	55 092	9 975	18 916	44 000	111 613	2 880	12 663	86 848
	ILLINOIS . . . . .	14	13	8 270	39 642	7 438	14 712	34 211	84 613	2 597	7 820	69 699
	SOUTH ATLANTIC . . . . .	55	41	15 907	70 658	14 060	27 449	59 512	134 872	5 655	(*)	(*)
	MARYLAND . . . . .	5	5	1 838	8 569	1 546	3 421	6 704	13 629	1 008	1 872	11 027
	EAST SOUTH CENTRAL . . . . .	9	9	2 926	12 857	2 548	5 227	10 451	29 743	1 725	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	18	14	4 026	16 740	3 495	6 918	13 806	40 618	2 397	(*)	(*)
	OKLAHOMA . . . . .	8	7	2 320	9 274	1 975	3 917	7 396	21 472	955	2 279	16 061
	PACIFIC . . . . .	22	17	6 412	36 012	5 618	11 492	29 940	76 611	5 007	(*)	(*)
323	PRODUCTS OF PURCHASED GLASS, TOTAL . . . . .	1 031	239	24 024	109 570	19 737	38 124	83 125	242 657	16 526	21 614	192 644
324	CEMENT, HYDRAULIC, TOTAL . . . . .	175	170	41 127	214 221	34 780	69 481	170 156	724 771	100 677	39 769	528 920
325	STRUCTURAL CLAY PRODUCTS, TOTAL . . . . .	1 018	726	70 305	292 876	59 749	117 850	228 192	490 448	32 152	72 814	425 356
	NEW ENGLAND . . . . .	32	16	1 040	4 434	855	1 786	3 379	6 074	490	1 246	6 363
	MAINE . . . . .	11	1	110	390	87	163	280	636	11	111	481
	MASSACHUSETTS . . . . .	7	7	454	1 980	376	808	1 518	2 606	99	574	3 071
	CONNECTICUT . . . . .	9	5	354	1 620	287	594	1 228	2 222	222	456	2 396
	MIDDLE ATLANTIC . . . . .	165	127	11 890	55 329	10 258	19 751	44 325	90 351	5 492	12 907	80 522
	NEW YORK . . . . .	27	16	1 762	7 965	1 530	3 134	6 515	11 890	595	1 805	10 656
	NEW JERSEY . . . . .	23	18	1 607	7 461	1 376	2 732	5 994	12 464	338	2 004	12 300
	PENNSYLVANIA . . . . .	115	93	8 521	39 903	7 352	13 885	31 816	65 997	4 559	9 097	57 566
	EAST NORTH CENTRAL . . . . .	279	208	21 590	94 843	18 225	35 056	74 468	144 212	7 850	22 823	134 383
	OHIO . . . . .	166	127	14 909	64 893	12 608	23 896	51 769	99 376	5 827	15 712	92 443
	INDIANA . . . . .	42	35	3 209	13 258	2 720	5 414	10 298	18 653	922	3 080	16 056
	ILLINOIS . . . . .	45	37	2 803	13 529	2 323	4 657	9 895	21 388	886	3 266	21 171
	MICHIGAN . . . . .	13	8	562	2 749	486	955	2 173	4 429	198	661	4 318
	WISCONSIN . . . . .	13	1	107	414	88	134	333	366	17	101	392
	WEST NORTH CENTRAL . . . . .	76	56	6 004	28 535	4 775	9 683	20 592	53 296	4 751	7 327	46 296
	MINNESOTA . . . . .	9	3	247	997	213	443	782	1 760	100	295	1 350
	IOWA . . . . .	26	19	1 177	4 811	950	1 995	3 483	8 679	714	1 420	8 062
	MISSOURI . . . . .	22	18	3 551	18 641	2 728	5 460	13 119	35 277	3 310	4 460	29 725
	NEBRASKA . . . . .	4	3	123	443	104	218	320	584	265	178	1 018
	SOUTH ATLANTIC . . . . .	129	94	9 295	32 594	7 908	16 193	23 966	55 327	3 744	9 306	46 579
	MARYLAND . . . . .	18	11	778	3 298	647	1 314	2 501	5 977	266	873	4 747
	VIRGINIA . . . . .	16	12	790	2 701	668	1 432	2 090	4 577	267	896	4 674
	WEST VIRGINIA . . . . .	12	10	1 261	5 491	1 118	2 034	4 429	7 030	495	1 411	7 220
	NORTH CAROLINA . . . . .	38	30	2 296	7 782	1 888	4 018	5 153	14 500	783	2 250	11 275
	SOUTH CAROLINA . . . . .	16	14	1 022	2 889	886	1 944	2 155	4 225	274	995	3 499
	GEORGIA . . . . .	14	12	2 607	8 483	2 220	4 521	6 025	15 237	1 370	2 468	13 244
	FLORIDA . . . . .	11	3	407	1 432	357	679	1 139	2 881	223	196	882

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
325	STRUCTURAL CLAY PRODUCTS—CONTINUED											
	EAST SOUTH CENTRAL. . . . .	78	60	5 747	20 119	5 119	9 710	16 608	35 959	2 577	4 976	23 527
	KENTUCKY . . . . .	20	15	1 449	5 608	1 286	2 337	4 564	9 603	1 258	1 490	7 680
	MISSISSIPPI . . . . .	19	16	1 051	3 274	928	1 903	2 539	6 951	390	675	2 698
	WEST SOUTH CENTRAL. . . . .	100	80	6 843	21 673	5 996	12 709	16 955	37 875	2 902	5 578	25 543
	TEXAS. . . . .	67	55	5 033	15 775	4 381	9 104	12 144	27 505	2 276	3 726	16 980
	MOUNTAIN. . . . .	54	29	2 319	9 863	1 921	4 123	7 567	15 389	1 112	2 009	11 627
	COLORADO . . . . .	20	12	1 271	5 470	1 034	2 035	4 005	9 071	647	1 202	7 380
	NEW MEXICO . . . . .	3	3	151	562	138	420	483	775	30	(*)	(*)
	ARIZONA. . . . .	9	6	219	852	183	390	683	1 193	104	156	739
	PACIFIC . . . . .	105	56	5 577	25 486	4 692	8 839	20 332	51 965	3 234	6 639	50 511
	WASHINGTON . . . . .	12	7	408	1 827	313	630	1 295	3 226	694	610	4 637
	OREGON . . . . .	15	3	214	842	172	262	628	1 247	281	226	1 388
	CALIFORNIA . . . . .	78	46	4 955	22 817	4 207	7 947	18 409	47 492	2 259	5 802	44 485
326	POTTERY AND RELATED PRODUCTS: TOTAL.	755	245	44 219	181 147	37 512	69 433	140 612	283 912	10 621	50 934	260 062
	NEW ENGLAND . . . . .	35	5	596	2 526	482	991	1 922	4 186	484	237	1 265
	MASSACHUSETTS. . . . .	16	1	145	560	123	279	454	942	137	(*)	(*)
	CONNECTICUT. . . . .	9	4	427	1 896	339	684	1 408	3 122	337	168	1 058
	MIDDLE ATLANTIC . . . . .	165	69	13 454	59 720	11 168	21 560	45 365	93 104	3 390	15 744	88 484
	NEW YORK . . . . .	62	17	4 134	18 473	3 429	6 784	13 279	28 531	1 037	3 780	20 278
	NEW JERSEY . . . . .	58	30	4 510	20 216	3 671	6 933	15 398	33 229	537	6 161	38 565
	PENNSYLVANIA . . . . .	45	22	4 810	21 031	4 068	7 843	16 688	31 344	1 816	5 803	29 640
	EAST NORTH CENTRAL. . . . .	145	79	15 871	65 855	13 826	25 595	51 861	102 315	3 643	17 873	88 723
	OHIO . . . . .	80	50	9 287	35 843	8 112	14 200	28 426	56 041	2 266	11 640	54 288
	INDIANA. . . . .	10	6	874	4 121	770	1 430	3 345	7 629	183	775	7 006
	ILLINOIS . . . . .	31	17	3 141	12 585	2 718	5 351	9 914	20 317	741	2 790	12 130
	WEST NORTH CENTRAL. . . . .	29	6	535	1 711	374	697	1 142	2 611	222	521	1 965
	MISSOURI . . . . .	16	5	290	936	171	344	558	1 205	141	187	638
	SOUTH ATLANTIC. . . . .	67	21	5 388	18 018	4 851	7 287	14 825	23 804	575	6 486	24 588
	WEST VIRGINIA. . . . .	20	12	4 172	12 638	3 869	5 413	11 009	14 550	271	5 464	17 887
	GEORGIA. . . . .	13	4	205	634	169	287	491	883	28	(*)	(*)
	EAST SOUTH CENTRAL. . . . .	29	10	1 991	7 464	1 646	3 288	5 609	11 278	709	2 863	10 649
	TENNESSEE. . . . .	11	5	1 509	5 933	1 210	2 432	4 243	8 718	639	2 315	8 352
	WEST SOUTH CENTRAL. . . . .	29	11	1 022	4 352	861	1 680	3 463	9 085	251	998	8 404
	MOUNTAIN. . . . .	25	2	576	2 658	403	833	1 779	3 582	276	436	2 150
	PACIFIC . . . . .	231	42	4 786	18 843	3 901	7 502	14 646	33 947	1 071	5 774	33 832
	CALIFORNIA . . . . .	224	42	4 738	18 730	3 862	7 437	14 545	33 710	1 004	5 727	33 624
327	CONCRETE AND PLASTER PRODUCTS: TOTAL	9 161	2 035	149 525	690 325	112 187	227 568	474 521	1 548 434	153 750	(*)	(*)
	NEW ENGLAND . . . . .	395	87	5 868	30 015	4 251	8 837	19 829	65 405	6 776	(*)	(*)
	MAINE. . . . .	30	9	465	1 807	357	685	1 216	4 226	350	(*)	(*)
	NEW HAMPSHIRE. . . . .	37	4	405	1 383	321	652	1 421	3 922	434	(*)	(*)
	VERMONT. . . . .	19	3	276	1 122	197	352	717	2 121	143	(*)	(*)
	MASSACHUSETTS. . . . .	163	41	2 605	14 093	1 907	4 125	9 483	33 592	2 994	(*)	(*)
	RHODE ISLAND . . . . .	32	6	346	1 790	244	522	1 215	3 417	287	(*)	(*)
	CONNECTICUT. . . . .	114	24	1 771	9 360	1 225	2 501	5 777	18 127	2 568	(*)	(*)
	MIDDLE ATLANTIC . . . . .	1 259	304	23 010	112 899	17 152	35 277	78 402	247 103	23 349	(*)	(*)
	NEW YORK . . . . .	472	115	8 947	46 642	6 858	13 865	33 125	103 266	8 626	(*)	(*)
	NEW JERSEY . . . . .	237	72	5 253	26 307	3 588	7 631	16 726	58 701	3 820	(*)	(*)
	PENNSYLVANIA . . . . .	550	117	8 810	39 950	6 706	13 781	28 551	85 136	10 903	(*)	(*)
	EAST NORTH CENTRAL. . . . .	2 224	408	31 212	163 217	23 262	46 857	109 620	348 366	33 370	(*)	(*)
	OHIO . . . . .	573	122	10 402	53 330	7 809	15 855	36 033	111 867	10 050	(*)	(*)
	INDIANA. . . . .	344	55	4 800	23 350	3 542	6 906	15 383	52 538	5 110	(*)	(*)
	ILLINOIS . . . . .	468	96	6 335	35 628	4 799	9 837	24 936	78 890	8 105	(*)	(*)
	MICHIGAN . . . . .	534	83	6 457	33 577	4 738	9 564	21 951	71 435	6 154	(*)	(*)
	WISCONSIN. . . . .	305	52	3 218	17 332	2 374	4 695	11 317	33 636	3 951	(*)	(*)
	WEST NORTH CENTRAL. . . . .	996	166	14 491	64 555	11 171	22 104	45 535	161 685	17 730	(*)	(*)
	IOWA . . . . .	247	30	3 216	14 795	2 488	5 188	10 659	44 521	4 018	(*)	(*)
	MISSOURI . . . . .	246	47	4 615	20 534	3 575	6 829	14 876	46 696	5 170	(*)	(*)
	NORTH DAKOTA . . . . .	29	4	313	1 226	259	481	970	3 149	658	(*)	(*)
	NEBRASKA . . . . .	74	13	1 085	4 178	840	1 653	2 433	9 769	1 425	(*)	(*)
	KANSAS . . . . .	118	24	1 762	8 093	1 394	2 856	5 879	21 854	2 293	(*)	(*)
	SOUTH ATLANTIC. . . . .	1 392	403	26 117	99 060	19 727	40 936	67 562	224 127	22 648	(*)	(*)
	DELAWARE . . . . .	29	12	541	1 916	362	575	1 108	4 895	415	(*)	(*)
	MARYLAND . . . . .	127	36	2 409	10 750	1 748	3 513	6 653	24 430	2 677	(*)	(*)
	DISTRICT OF COLUMBIA . . . . .	10	6	523	2 635	452	1 020	2 005	5 954	507	(*)	(*)
	VIRGINIA . . . . .	175	59	4 085	16 498	3 306	7 085	12 072	42 796	2 733	(*)	(*)
	WEST VIRGINIA. . . . .	75	19	1 237	5 340	861	1 688	3 353	10 693	678	(*)	(*)
	NORTH CAROLINA . . . . .	195	46	3 064	9 590	2 390	4 665	6 608	20 849	2 697	(*)	(*)
	SOUTH CAROLINA . . . . .	99	25	1 377	4 353	1 059	2 131	3 029	11 114	1 290	(*)	(*)
	GEORGIA. . . . .	189	49	2 989	10 556	2 362	4 674	7 443	23 692	2 372	(*)	(*)
	FLORIDA. . . . .	493	151	9 892	37 422	7 187	15 585	25 291	79 704	9 279	(*)	(*)

See footnotes at end of table.



Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital ex- pendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
327	CONCRETE AND PLASTER PRODUCTS—CON.											
	EAST SOUTH CENTRAL . . . . .	579	111	8 070	28 219	6 176	12 415	19 350	66 081	8 192	(*)	(*)
	KENTUCKY. . . . .	145	14	1 477	5 610	1 091	2 071	3 840	11 416	1 324	(*)	(*)
	TENNESSEE . . . . .	178	37	2 658	9 542	2 062	4 399	6 422	23 171	2 274	(*)	(*)
	ALABAMA . . . . .	161	42	2 658	9 278	2 064	4 047	6 517	21 449	2 972	(*)	(*)
	MISSISSIPPI . . . . .	95	18	1 277	3 789	959	1 898	2 571	10 045	1 622	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	786	194	15 057	60 245	11 597	24 074	42 631	158 112	14 329	(*)	(*)
	ARKANSAS. . . . .	67	10	1 088	3 857	901	1 856	3 032	9 150	698	(*)	(*)
	LOUISIANA . . . . .	154	34	2 772	10 911	2 179	4 403	8 026	28 618	2 612	(*)	(*)
	OKLAHOMA. . . . .	112	20	1 920	7 566	1 548	3 091	5 952	19 830	1 616	(*)	(*)
	TEXAS . . . . .	453	130	9 277	37 911	6 969	14 724	25 621	100 514	9 403	(*)	(*)
	MOUNTAIN . . . . .	448	111	7 499	36 487	5 712	11 579	26 036	80 114	9 497	(*)	(*)
	IDAHO . . . . .	45	15	752	3 284	546	1 090	2 302	7 021	639	(*)	(*)
	COLORADO. . . . .	111	25	1 443	6 834	1 138	2 222	5 051	13 873	1 621	(*)	(*)
	NEW MEXICO. . . . .	54	15	833	3 540	627	1 209	2 254	6 810	1 548	(*)	(*)
	ARIZONA . . . . .	67	19	1 561	8 623	1 097	2 286	5 574	17 550	1 731	(*)	(*)
	UTAH. . . . .	68	25	1 503	7 010	1 160	2 440	5 223	16 425	2 339	(*)	(*)
	NEVADA. . . . .	24	8	779	4 452	625	1 403	3 443	12 079	834	(*)	(*)
	PACIFIC. . . . .	1 082	251	18 201	95 628	13 139	25 489	65 556	197 441	17 859	(*)	(*)
	WASHINGTON. . . . .	179	39	3 025	16 757	2 247	4 194	11 029	30 344	2 216	(*)	(*)
	OREGON. . . . .	144	22	1 696	8 236	1 312	2 506	6 024	17 336	2 017	(*)	(*)
	CALIFORNIA. . . . .	759	190	13 480	70 635	9 580	18 789	48 503	149 761	13 626	(*)	(*)
327 EXC. 3273	CONCRETE AND PLASTER PRODUCTS (EXCLUDING READY-MIXED CONCRETE) <sup>1</sup> .	5 514	1 091	87 635	388 718	68 132	139 484	273 544	672 372	82 760	89 610	705 513
	NEW ENGLAND. . . . .	268	44	3 497	17 055	2 643	5 526	11 587	33 474	4 259	3 125	24 365
	MAINE . . . . .	18	4	211	1 383	149	298	547	2 352	196	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	25	3	298	1 838	232	495	1 045	2 902	318	281	2 812
	MASSACHUSETTS . . . . .	116	19	1 591	7 815	1 241	2 658	5 593	16 389	1 820	1 576	12 817
	RHODE ISLAND. . . . .	20	3	190	986	135	281	637	1 695	105	196	1 430
	CONNECTICUT . . . . .	74	12	964	5 126	716	1 493	3 225	8 445	1 730	702	5 349
	MIDDLE ATLANTIC. . . . .	836	183	14 745	68 914	11 259	23 259	48 867	149 153	13 825	15 278	125 067
	NEW YORK. . . . .	303	73	5 819	28 441	4 620	9 386	21 330	65 333	5 079	5 795	54 290
	NEW JERSEY. . . . .	149	43	3 311	15 877	2 193	4 665	9 404	34 724	1 811	3 555	30 598
	PENNSYLVANIA. . . . .	384	67	2 615	24 596	4 446	9 208	18 133	49 096	6 935	5 926	40 178
	EAST NORTH CENTRAL . . . . .	1 386	209	19 022	95 282	14 758	29 980	65 712	203 044	19 086	23 422	189 714
	OHIO. . . . .	357	69	6 835	33 744	5 367	10 975	23 416	68 718	5 897	10 219	80 796
	INDIANA . . . . .	221	24	2 974	13 839	2 236	4 432	9 190	34 303	2 921	4 166	32 006
	ILLINOIS. . . . .	264	49	3 382	17 898	2 693	5 511	13 021	37 613	3 962	2 666	23 330
	MICHIGAN. . . . .	347	41	3 950	19 668	3 042	6 150	13 530	43 558	4 003	4 467	39 235
	WISCONSIN . . . . .	197	26	1 881	10 133	1 420	2 912	6 555	18 852	2 303	1 902	14 345
	WEST NORTH CENTRAL . . . . .	571	93	8 624	37 284	6 940	13 833	26 876	92 497	10 080	10 676	92 886
	IOWA. . . . .	137	20	2 222	10 373	1 799	3 869	7 773	32 981	2 416	2 303	25 595
	MISSOURI. . . . .	143	24	2 461	10 277	1 993	3 774	7 492	21 432	3 638	2 532	17 031
	KANSAS. . . . .	53	11	914	3 890	722	1 442	2 777	11 030	975	2 663	28 602
	SOUTH ATLANTIC . . . . .	950	249	16 380	60 566	12 711	26 785	42 031	135 615	13 221	13 918	88 711
	DELAWARE. . . . .	18	7	244	761	162	298	518	1 743	231	206	1 087
	MARYLAND. . . . .	87	21	1 618	6 918	1 286	2 608	4 818	18 128	2 092	(NA)	(NA)
	DISTRICT OF COLUMBIA. . . . .	6	2	157	644	145	330	521	3 200	51	(NA)	(NA)
	VIRGINIA. . . . .	114	43	2 818	10 940	2 272	4 723	7 759	27 858	1 682	2 756	20 914
	NORTH CAROLINA. . . . .	128	31	1 890	6 041	1 429	3 017	3 894	11 716	1 529	1 796	9 241
	SOUTH CAROLINA. . . . .	62	16	876	2 668	687	1 363	1 849	6 502	823	884	4 679
	FLORIDA . . . . .	348	91	6 196	23 173	4 729	10 470	16 202	44 477	4 946	4 095	23 575
	EAST SOUTH CENTRAL . . . . .	354	66	4 673	15 510	3 729	7 364	10 911	35 893	4 412	4 747	27 884
	KENTUCKY. . . . .	80	6	641	2 277	521	1 010	1 628	4 966	469	697	3 986
	TENNESSEE . . . . .	117	21	1 718	5 556	1 376	2 714	3 728	12 517	1 348	1 736	9 848
	ALABAMA . . . . .	111	29	1 786	6 178	1 416	2 782	4 400	13 361	2 175	1 887	11 148
	MISSISSIPPI . . . . .	46	10	528	1 499	416	858	1 155	5 049	420	426	2 901
	WEST SOUTH CENTRAL . . . . .	403	95	7 983	30 257	6 380	13 040	21 813	87 019	5 907	6 387	57 029
	OKLAHOMA. . . . .	43	11	942	3 370	756	1 500	2 508	10 181	550	809	7 837
	TEXAS . . . . .	240	66	5 310	20 685	4 175	8 645	14 499	58 405	4 175	4 120	41 958
	MOUNTAIN . . . . .	232	58	4 178	19 636	3 295	6 734	14 532	44 138	5 069	3 463	27 627
	IDAHO . . . . .	20	11	482	2 007	334	671	1 382	4 445	287	(NA)	(NA)
	COLORADO. . . . .	70	13	817	3 558	637	1 254	2 555	5 877	1 003	(NA)	(NA)
	NEW MEXICO. . . . .	26	7	335	1 308	265	500	864	2 554	722	251	1 296
	ARIZONA . . . . .	33	8	718	3 718	559	1 115	2 592	7 362	612	637	(D)
	UTAH. . . . .	32	13	927	4 282	758	1 590	3 386	10 357	1 691	753	6 925
	NEVADA. . . . .	14	4	604	3 439	497	1 134	2 712	10 236	573	(NA)	(NA)
	PACIFIC. . . . .	514	94	8 533	44 214	6 417	12 963	31 215	91 539	6 901	8 592	72 227
	WASHINGTON. . . . .	100	13	1 361	7 486	1 039	2 054	4 986	12 173	808	1 278	7 682
	OREGON. . . . .	64	8	677	3 448	525	1 110	2 614	7 116	502	445	3 163
	CALIFORNIA. . . . .	350	73	6 495	33 280	4 853	9 799	23 615	72 250	5 591	6 868	61 381

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
328	CUT STONE AND STONE PRODUCTS, TOTAL	1 001	243	20 348	83 038	16 995	33 056	63 818	129 038	8 405	21 576	119 765
329	NONMETALLIC MINERALS, NEC, TOTAL . .	1 609	599	91 270	458 936	68 173	135 848	312 641	1 001 730	65 680	(*)	(*)
	NEW ENGLAND . . . . .	134	56	10 571	55 791	7 062	13 736	32 925	94 850	9 396	(*)	(*)
	NEW HAMPSHIRE . . . . .	11	6	845	3 242	677	1 322	2 281	5 873	151	(*)	(*)
	MASSACHUSETTS . . . . .	82	29	6 815	37 492	4 301	8 226	20 638	62 863	8 710	(*)	(*)
	RHODE ISLAND . . . . .	3	2	177	699	104	194	386	1 050	25	(*)	(*)
	CONNECTICUT . . . . .	33	16	2 650	13 973	1 910	3 855	9 318	24 229	493	(*)	(*)
	MIDDLE ATLANTIC . . . . .	437	172	30 145	158 582	21 703	43 561	104 475	306 069	17 889	(*)	(*)
	NEW YORK . . . . .	152	45	10 963	59 640	7 512	14 898	36 169	112 124	8 251	(*)	(*)
	NEW JERSEY . . . . .	106	42	8 580	45 360	6 384	13 629	31 853	90 177	4 908	(*)	(*)
	PENNSYLVANIA . . . . .	179	85	10 602	53 582	7 807	15 034	36 453	103 768	4 730	(*)	(*)
	EAST NORTH CENTRAL . . . . .	467	186	26 623	131 242	20 367	40 735	91 630	287 911	16 616	(*)	(*)
	OHIO . . . . .	131	54	7 438	35 203	5 479	10 870	24 762	77 058	5 552	(*)	(*)
	INDIANA . . . . .	48	29	4 626	22 546	3 803	8 002	17 497	50 278	4 319	(*)	(*)
	ILLINOIS . . . . .	154	59	10 492	53 711	8 013	15 834	36 166	117 111	5 280	(*)	(*)
	MICHIGAN . . . . .	97	34	3 053	15 475	2 251	4 411	10 066	31 261	1 094	(*)	(*)
	WISCONSIN . . . . .	37	10	1 014	4 307	621	1 618	3 139	12 203	371	(*)	(*)
	WEST NORTH CENTRAL . . . . .	77	21	5 794	28 743	4 740	9 435	22 489	90 277	5 177	(*)	(*)
	SOUTH ATLANTIC . . . . .	101	33	5 049	20 418	4 236	8 284	16 077	49 383	2 207	(*)	(*)
	VIRGINIA . . . . .	13	6	1 214	4 153	982	1 892	3 086	9 478	429	(*)	(*)
	WEST VIRGINIA . . . . .	9	1	109	531	93	197	445	1 523	103	(*)	(*)
	NORTH CAROLINA . . . . .	20	9	909	2 905	776	1 562	2 184	5 753	572	(*)	(*)
	GEORGIA . . . . .	15	5	304	982	262	466	730	1 775	170	(*)	(*)
	FLORIDA . . . . .	18	4	262	921	184	402	646	1 743	91	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	56	22	2 487	11 367	1 988	3 923	8 480	27 565	1 960	(*)	(*)
	KENTUCKY . . . . .	11	4	958	4 774	700	1 324	3 343	8 902	812	(*)	(*)
	ALABAMA . . . . .	24	11	857	3 858	728	1 439	3 090	10 315	563	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	84	39	3 435	15 073	2 620	5 306	10 474	41 813	4 926	(*)	(*)
	LOUISIANA . . . . .	15	9	1 329	5 878	1 085	2 087	4 528	13 483	572	(*)	(*)
	TEXAS . . . . .	55	26	1 789	7 737	1 298	2 703	5 042	21 808	4 189	(*)	(*)
	MOUNTAIN . . . . .	54	12	894	4 300	730	1 354	3 194	13 864	1 804	(*)	(*)
	UTAH . . . . .	13	6	354	1 720	293	515	1 397	7 284	267	(*)	(*)
	PACIFIC . . . . .	199	58	6 272	33 420	4 727	9 514	22 897	89 998	5 705	(*)	(*)
	WASHINGTON . . . . .	24	5	451	2 210	364	680	1 735	5 602	602	(*)	(*)
	CALIFORNIA . . . . .	164	53	5 782	31 014	4 331	8 778	21 012	84 063	5 040	(*)	(*)

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>1</sup>The 1954 Census of Manufactures did not include Industry 3273, "Ready-Mixed Concrete". In order to show comparable geographic data for 1954 and 1958 figures were revised to exclude Industry 3273 in this table.



Table 3-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Stone clay and glass products (SIC 32)	Flat glass (SIC 321)	Pressed and blown glassware (SIC 322)	Products of pur- chased glass (SIC 323)	Cement, hydrau- lic (SIC 324)	Struc- tural clay products (SIC 325)	Pottery and related products (SIC 326)	Concrete and plaster products (SIC 327)	Cut stone and stone products (SIC 328)	Nonme- tallic mineral products nec (SIC 329)
Number of establishments, total.....	15,022	32	240	1,031	175	1,018	755	9,161	1,001	1,609
With 1-19 employees.....	10,544	1	50	792	5	292	510	7,126	758	1,010
With 20-99 employees.....	3,363	7	33	195	20	524	132	1,843	210	399
With 100 employees or more.....	1,115	24	157	44	150	202	113	192	33	200
Proprietors and working partners.....Number..	9,485	...	33	661	1	284	545	6,652	784	525
All employees:										
Number (average for the year).....	554,042	21,179	92,045	24,024	41,127	70,305	44,219	149,525	20,348	91,270
Payroll.....\$1,000..	2,594,971	133,551	431,307	109,570	214,221	292,876	181,147	690,325	83,038	458,936
Production workers:										
Number (average for the year).....	445,866	17,625	79,108	19,737	34,780	59,749	37,512	112,187	16,995	68,173
March.....	428,916	19,228	77,798	19,104	33,766	55,545	38,199	101,608	16,143	67,525
May.....	441,778	17,648	78,166	18,979	35,054	59,048	36,257	114,154	17,444	65,028
August.....	460,686	20,102	81,022	20,272	35,407	62,655	36,545	118,862	17,400	68,421
November.....	454,693	13,525	79,465	20,772	34,880	61,675	39,270	116,097	17,237	71,772
Man-hours.....1,000..	883,823	35,867	156,596	38,124	69,481	117,850	69,433	227,568	33,056	135,848
January-March.....do....	207,918	10,281	38,531	9,180	16,284	26,256	17,573	48,754	7,526	33,533
April-June.....do....	218,888	8,486	38,818	9,190	17,636	29,441	16,660	57,944	8,635	32,078
July-September.....do....	227,362	10,095	39,415	9,811	17,924	30,882	16,517	61,126	8,512	33,080
October-December.....do....	229,455	7,005	39,832	9,943	17,637	31,071	18,683	59,744	8,383	37,157
Wages.....\$1,000..	1,933,949	110,675	350,209	83,125	170,156	228,192	140,612	474,521	63,818	312,641
Value added by manufacture, adjusted.....do....	5,528,952	263,151	844,811	242,657	724,771	490,448	283,912	1,548,434	129,038	1,001,730
Cost of fuels consumed.....do....	337,912	13,373	49,123	2,484	116,778	55,944	9,155	57,907	1,809	31,339
Cost of electricity purchased.....do....	130,791	5,603	17,993	2,482	44,691	12,770	3,758	23,148	2,104	18,242
Manufactures' inventories:										
Beginning of year, total.....do....	1,262,959	64,852	171,418	60,070	165,476	134,999	73,759	248,846	30,179	313,360
Finished products.....do....	618,920	18,797	110,608	28,156	53,419	87,578	36,209	145,230	12,356	126,567
Work-in-process.....do....	155,355	9,297	10,051	11,464	21,352	13,048	13,170	15,082	8,005	53,886
Materials, supplies, fuels, etc.....do....	488,684	36,758	50,759	20,450	90,705	34,373	24,380	88,534	9,818	132,907
End of year, total.....do....	1,231,147	55,162	169,824	59,663	166,615	133,001	69,300	252,626	29,945	295,011
Finished products.....do....	615,957	12,745	111,576	27,438	57,414	86,047	32,309	150,911	11,672	125,845
Work-in-process.....do....	150,391	10,015	9,759	11,708	22,943	12,701	13,453	13,367	8,535	47,910
Materials, supplies, fuel, etc.....do....	464,799	32,402	48,489	20,517	86,258	34,253	23,538	88,348	9,738	121,256
Expenditures for plant and equipment,										
total.....do....	462,281	12,768	43,494	17,575	101,963	34,084	11,040	163,357	8,942	69,058
New, total.....do....	442,286	12,057	42,418	16,526	100,677	32,152	10,621	153,750	8,405	65,680
New structures and additions										
to plant.....do....	124,773	1,705	13,697	4,983	26,944	11,599	3,585	45,165	2,027	15,068
New Machinery and equipment.....do....	317,513	10,352	28,721	11,543	73,733	20,553	7,036	108,585	6,378	50,612
Used plant and equipment.....do....	19,995	711	1,076	1,049	1,286	1,932	419	9,607	537	3,378

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.





## Glass Products

This report covers 1958 Census of Manufactures statistics for establishments engaged primarily in the production of —

### S.I.C. Code and Title (1957 Edition)

3211—Flat Glass

3221—Glass Containers

3229—Pressed and Blown Glass and Glassware, N.E.C.

3231—Glass Products, Made of Purchased Glass

This group of industries includes establishments primarily engaged in manufacturing flat glass and glass products not specifically classified in other industries. For example, establishments primarily engaged in manufacturing the following glass products are not included in this group of industries: complete electric light bulbs, electronic or X-ray tubes (classified in Major Group 36, Electrical Machinery and Equipment), ophthalmic goods including prescription sun glasses and eye-protective goggles (classified in Industry 3851, Ophthalmic Goods), glass fabrics classified in Industry 2221, Weaving Mills, Synthetic), glass insulation (classified in Industry 3296, Mineral Wool). This group of industries remains unchanged both in number and in content from the 1945 Standard Industrial Classification Manual.

### 3211—Flat Glass

This industry comprises establishments primarily engaged in manufacturing flat glass, including plate glass, clear window glass, rolled glass, figured and wire glass, opalescent and obscured glass, spectacle glass, and cathedral and skylight glass. This industry also includes establishments that produce laminated glass from glass produced in the same establishment. Establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in Industry 3231, Glass Products Made of Purchased Glass. For a detailed list of primary products of Industry 3211, refer to table 6, product codes 3211121 to 3211498 and 3231311 to 3231698.

The value of shipments of Industry 3211, Flat Glass in 1958 totaled \$385 million. This included shipments of primary products (flat and laminated glass), shipments of secondary products, and miscellaneous receipts. Separate value of shipments data for primary and secondary products and miscellaneous receipts are withheld to avoid disclosing figures for individual companies.

Industry 3211 shipments of flat glass, including laminated, in 1958 as in 1954 represented over 90 percent of its total product shipments (primary and secondary).

Table 6 presents data for the total "shipments and interplant transfers" of flat glass. It should be noted, however, that some of the flat glass reported as "shipments and interplant transfers" does not reach the ultimate consumer as flat glass, but is instead used by establishments in Industry 3231 in the production of laminated glass and other glass products. These data are shown in table 7. In order to obtain data on the net shipments of flat glass, from manufacturing establishments in the glass industries, the quantities of glass consumed by establishments in In-

dustry 3231 should be subtracted from the "shipments and interplant transfers" by the establishments in Industry 3211.

### 3221—Glass Containers

This industry comprises establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning. Products of this industry may be machine-made or hand-made and include ampoules, carboys, cosmetic jars, fruit jars, medicine bottles, milk bottles, and vials. For a more detailed list of primary products of Industry 3221, refer to table 6, product codes 3221011 to 3221062.

The value of shipments of Industry 3221, Glass Containers, in 1958 totaled \$862 million. This included shipments of primary products (glass containers) valued at \$837 million, shipments of secondary products valued at \$10 million, and miscellaneous receipts amounting to 15 million dollars.

Industry 3221 shipments of glass containers in 1958 represented 99 percent of its total product shipments (primary and secondary). In 1954, the primary product specialization ratio was 98 percent. Secondary products shipped by Industry 3221 in 1958 consisted mainly of pressed and blown glassware, \$3 million.

This industry's shipments of glass containers in 1958 represented 99 percent of the glass containers valued at \$842 million shipped by all industries. The comparable coverage ratio for 1954 was 99 percent. The only other industry shipping any substantial amount of glass containers is Industry 3229, Pressed and Blown Glass and Glassware, N.E.C.

A monthly survey on Census Form M32G, "Glass Containers," collects statistics on quantity of machine-made containers in the same detail that is presented in this report. These statistics are summarized and published monthly in Current Industrial Reports, Series M32G, Glass Containers.

### 3229—Pressed and Blown Glass and Glassware, N.E.C.

This industry comprises establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in Industry 3296, Mineral Wool.

Establishments primarily engaged in the production of pressed lenses for headlights, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in Industry 3831, Optical Instruments and Lenses. Establishments primarily engaged in manufacturing glass containers are classified in Industry 3221, Glass Containers, and complete electric light bulbs in Industry 3641, Electric Lamps.

The value of shipments of Industry 3229, Pressed and Blown Glass and Glassware, N.E.C., in 1958 totaled \$445



million. This included shipments of primary products (pressed and blown glass and glassware, n.e.c.), valued at \$432 million, shipments of secondary products valued at \$9 million, and miscellaneous receipts of \$4 million.

Industry 3229 shipments of pressed and blown glass and glassware, n.e.c. in 1958 represented 98 percent of its total product shipments (primary and secondary). In 1954, the primary product specialization ratio was 98 percent.

Industry 3229 shipments of pressed and blown glass and glassware, n.e.c., in 1958 represented 97 percent of these products, valued at \$443 million shipped by all industries. The comparable coverage ratio in 1954 was 96 percent. Industry 3221, Glass Containers, was the principal other industry shipping pressed and blown glass and glassware in 1958.

#### 3231--Glass Products Made of Purchased Glass

This industry comprises establishments primarily engaged in manufacturing glass products from purchased glass, including laminated or safety glass, stained, leaded, ornamented, and decorated glass; mirrors; cutware; scientific-apparatus glass; glass novelties; mosaic glass;

round glass; cut, beveled, and etched glass; and glass watch crystals. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in Major Group 38, Instruments and Related Products; glass fabrics in Industry 2221, Weaving Mills, Synthetic; glass insulation in Industry 3296, Mineral Wool; glass fishing rods in Industry 3949, Sporting and Athletic Goods, N.E.C. For a detailed list of products of Industry 3231 refer to table 6 product codes 3231311 to 3231698.

The value of shipments of Industry 3231, Glass Products Made of Purchased Glass, in 1958 totaled \$469 million. This included shipments of primary products (glass products made of purchased glass) valued at \$431 million, shipments of secondary products valued at \$11 million, and miscellaneous receipts of \$27 million.

Industry 3231 shipments of glass products made of purchased glass in 1958 represented 98 percent of its total product shipments (primary and secondary), as compared to 97 percent in 1954.

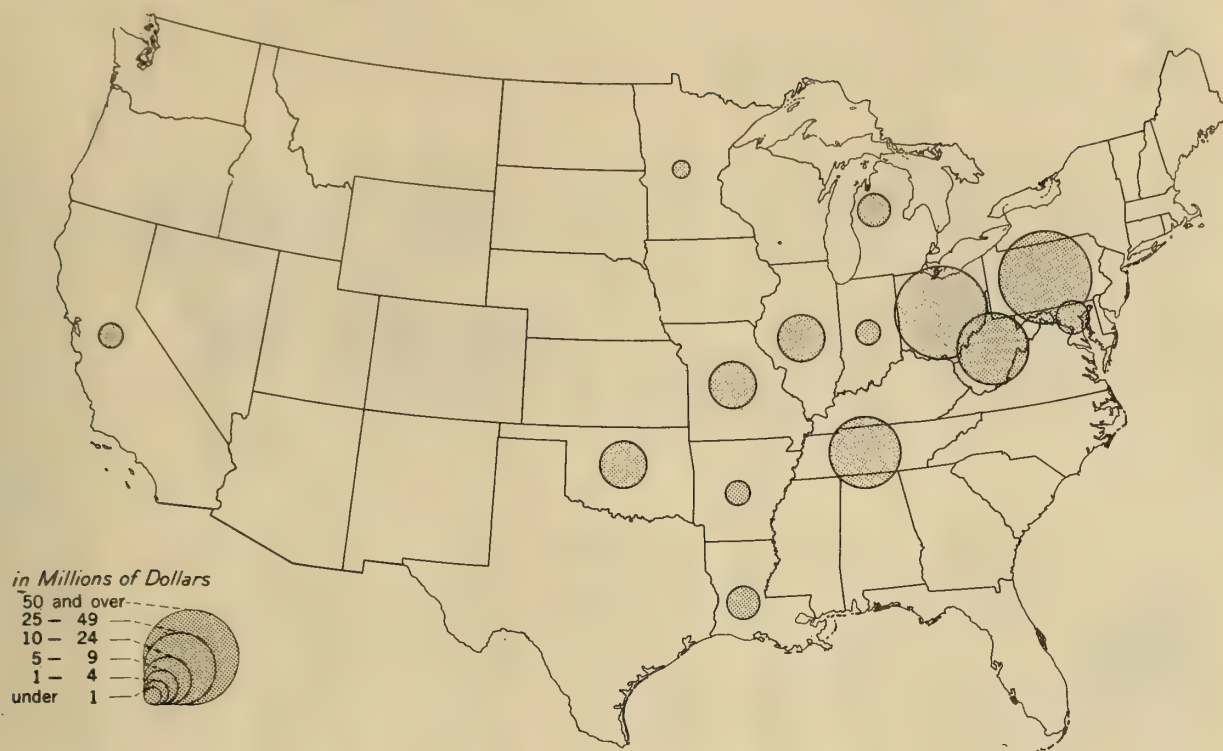
Industry 3231 shipments of glass products made of purchased glass in 1958 represented 81 percent of these glass products (including laminated glass) valued at \$533 million shipped by all industries. The comparable coverage ratio was 75 percent in 1954.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## FLAT GLASS: SIC 321

Value Added by Manufacture by State: 1958

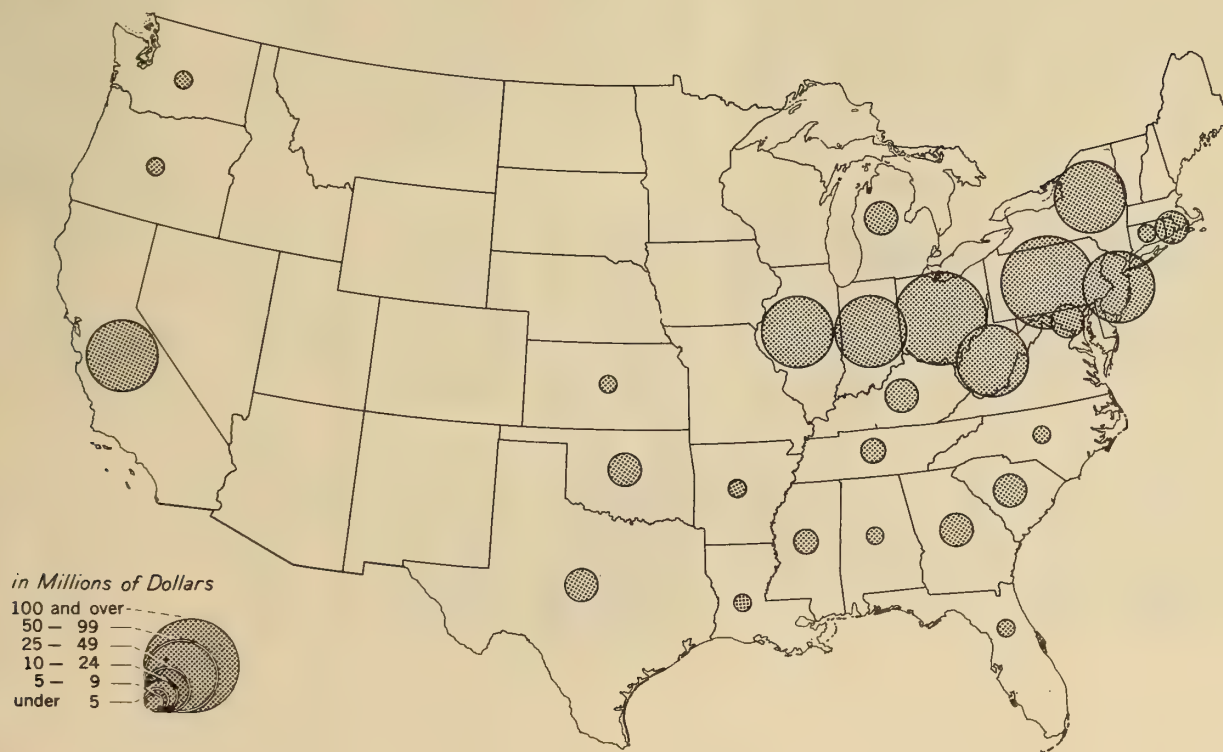


Includes Only Industry 3211. See Table 2.

Bureau of the Census M-58-D321

## GLASS AND GLASSWARE, PRESSED OR BLOWN: SIC 322

Value Added by Manufacture by State: 1958

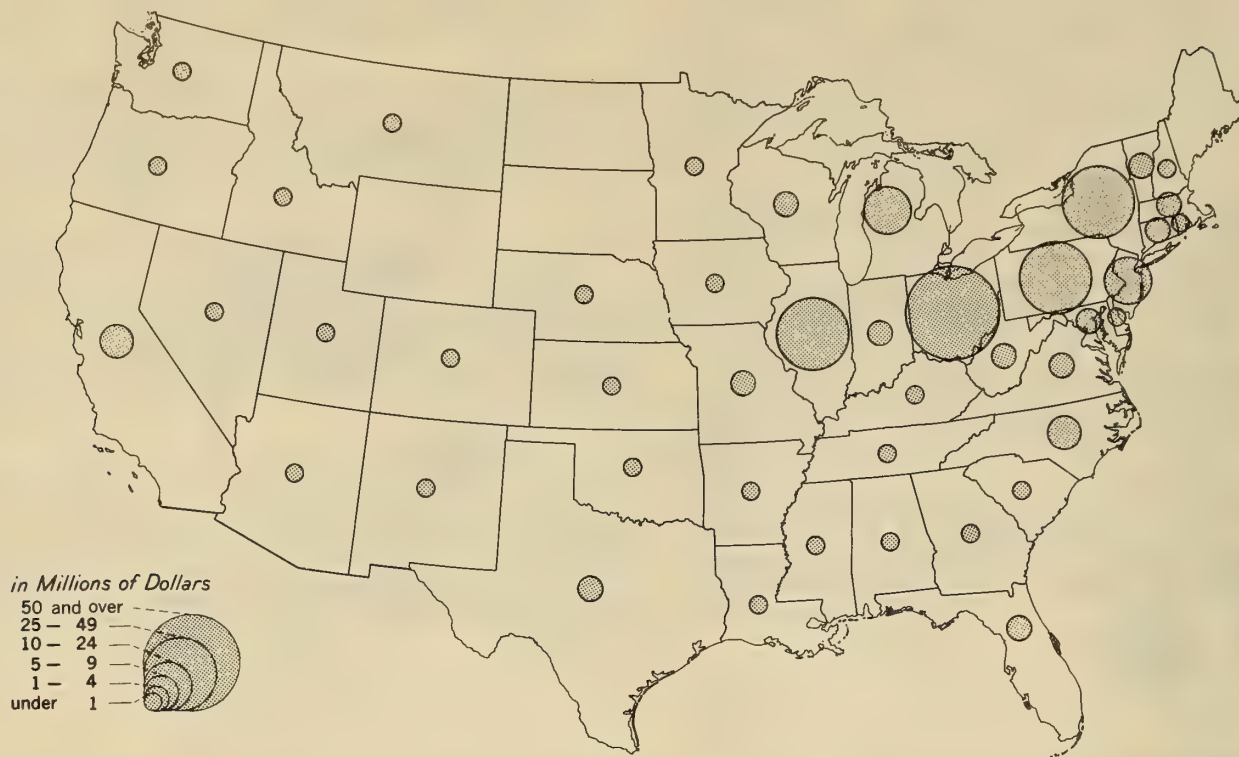


Includes Industries 3221 and 3229. See Table 2.

Bureau of the Census M-58-D322

## GLASS PRODUCTS, MADE OF PURCHASED GLASS: SIC 323

Value Added by Manufacture by State: 1958



Includes Only Industry 3231. See Table 2.

Bureau of the Census M-58-D323



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ializa- tion ratio <sup>6</sup>	Cov- er- age ratio <sup>7</sup>
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3211 (old SIC 3211)	Flat glass:														
	1958.....	15	32	31	21,179	133,551	17,625	35,867	110,675	263,151	115,115	384,711	12,057	1000	(D)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,105	163,356	22,746	46,048	138,694	315,863	144,548	458,038	86,509	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,628	165,528	23,332	49,494	143,985	327,358	148,087	467,275	101,320	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,482	159,921	23,294	49,726	140,279	346,475	146,479	492,088	12,790	(NA)	(NA)
	1954.....	16	32	30	24,559	132,509	21,389	44,344	114,966	247,175	119,576	372,689	30,964	1000	(D)
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	25,819	129,769	22,779	(NA)	113,711	224,583	111,591	336,174	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,206	107,870	20,435	(NA)	94,521	191,080	91,321	282,401	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,401	114,907	23,447	(NA)	101,066	211,498	104,880	316,378	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,286	103,996	23,685	(NA)	92,208	201,555	99,539	301,094	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,329	84,081	20,409	(NA)	73,504	152,284	82,847	235,131	(NA)	(NA)	(NA)
	1947.....	(NA)	32	(NA)	25,268	77,940	22,563	46,966	67,861	158,746	64,736	223,715	(NA)	(NA)	(NA)
	1939.....	(NA)	37	(NA)	18,638	28,161	16,739	(NA)	24,009	68,540	33,849	102,389	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	39	(NA)	(NA)	(NA)	20,583	(NA)	30,598	82,903	44,450	127,353	(NA)	(NA)	(NA)
3221 (old SIC 3221)	Glass containers:														
	1958.....	42	100	92	54,937	259,893	48,635	97,622	218,358	532,469	333,554	862,117	31,164	99	99
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,255	238,254	48,449	97,428	203,580	502,360	315,446	797,141	45,370	98	100
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	51,574	230,590	46,256	94,201	195,817	470,411	294,503	758,092	34,423	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	51,138	212,140	45,770	92,138	179,904	422,696	276,073	693,703	23,865	(NA)	(NA)
	1954.....	38	85	83	49,410	195,944	44,076	87,672	166,107	384,647	267,222	646,104	26,542	98	99
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	50,605	189,514	45,306	(NA)	163,281	358,465	255,164	613,629	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	47,569	168,976	42,938	(NA)	143,767	325,674	252,841	564,494	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	48,159	162,498	43,541	(NA)	138,828	308,093	254,852	548,918	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	42,279	131,889	38,235	(NA)	113,104	264,811	205,118	455,902	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	40,303	119,977	36,242	(NA)	101,592	223,746	185,362	395,081	(NA)	(NA)	(NA)
	1947.....	41	87	(NA)	47,132	126,503	41,943	87,530	107,101	252,069	191,961	422,614	(NA)	(D)	(D)
	1939.....	(NA)	77	(NA)	29,357	43,023	25,753	(NA)	34,181	98,378	59,894	158,272	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	80	(NA)	(NA)	(NA)	28,422	(NA)	37,288	93,581	69,136	162,717	(NA)	(NA)	(NA)
3229 (old SIC 3229)	Pressed and blown glass, nec:														
	1958.....	111	140	98	37,108	171,414	30,473	58,974	131,851	312,342	128,892	445,361	11,254	98	97
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	46,308	204,087	37,867	74,076	157,333	356,737	141,103	488,886	23,566	98	97
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	45,006	188,767	37,677	71,496	144,266	345,765	134,936	476,446	26,458	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	43,337	174,339	36,304	70,450	134,877	318,630	130,145	444,775	17,493	(NA)	(NA)
	1954.....	(NA)	(11)	(11)	41,924	158,623	35,006	66,673	121,776	294,192	117,757	416,021	10,875	98	96
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	39,703	151,985	34,510	(NA)	118,242	254,394	97,793	352,187	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	39,391	133,664	33,436	(NA)	104,779	230,107	84,658	314,763	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	42,963	137,545	37,009	(NA)	109,352	227,374	91,223	318,595	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	41,650	122,065	36,238	(NA)	97,611	239,041	81,181	320,220	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	38,063	105,964	32,511	(NA)	82,845	185,850	73,757	259,605	(NA)	(NA)	(NA)
	1947.....	107	126	(NA)	42,170	103,784	37,474	75,249	86,853	169,449	69,863	234,795	(NA)	96	91
	1939.....	(NA)	115	(NA)	31,320	38,975	27,330	(NA)	30,115	70,284	27,033	97,317	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	113	(NA)	(NA)	(NA)	30,046	(NA)	33,701	70,521	27,119	97,640	(NA)	(NA)	(NA)
3211 3221 3229	Totals for flat glass and pressed and blown glass, nec:														
	1958.....	(NA)	272	221	113,224	564,858	96,733	192,463	460,884	1,107,962	577,561	1,692,189	54,475	(NA)	(NA)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	126,668	605,697	109,062	217,552	499,607	1,174,960	601,097	1,744,065	155,445	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	123,208	584,885	107,265	215,191	484,068	1,143,534	577,526	1,701,813	162,201	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	120,957	546,400	105,368	211,314	455,060	1,087,801	522,697	1,630,566	54,148	(NA)	(NA)
	1954.....	(NA)	(NA)	(NA)	115,893	487,076	100,471	198,689	402,849	926,014	504,555	1,434,814	68,381	(NA)	(NA)
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	116,127	471,268	102,595	(NA)	395,234	837,442	464,548	1,301,990	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	110,166	410,510	96,809	(NA)	343,067	746,861	428,820	1,161,658	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	117,523	414,950	103,997	(NA)	349,246	746,965	450,955	1,183,891	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	110,215	357,950	98,158	(NA)	302,923	705,407	385,838	1,077,216	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	101,695	310,022	89,162	(NA)	257,941	561,880	341,966	889,817	(NA)	(NA)	(NA)
	1947.....	(NA)	245	(NA)	114,570	308,227	101,980	209,745	261,815	580,264	326,560	881,124	(NA)	(NA)	(NA)
	1939.....	(NA)	229	(NA)	79,315	110,159	69,822	(NA)	88,305	237,202	120,776	357,978	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	232	(NA)	87,007	119,391	79,051	(NA)	101,587	247,005	140,705	387,710	(NA)	(NA)	(NA)
	1935.....	(NA)	213	(NA)	73,350	85,828	67,138	(NA)	71,443	173,884	110,041	283,925	(NA)	(NA)	(NA)
	1933.....	(NA)	213	(NA)	54,297	53,858	49,797	(NA)	45,222	128,538	63,410	191,948	(NA)	(NA)	(NA)
	1931.....	(NA)	229	(NA)	(NA)	(NA)	49,917	(NA)	57,882	142,690	73,575	216,265	(NA)	(NA)	(NA)
	1929.....	(NA)	263	(NA)	73,396	103,382	67,527	(NA)	87,795	200,525	103,294	303,819	(NA)	(NA)	(NA)
	1927.....	(NA)	269	(NA)	71,454	95,207	65,825	(NA)	81,353	172,483	109,911	282,394	(NA)	(NA)	(NA)
	1925.....	(NA)	310	(NA)	74,786	100,637	69,371	(NA)	86,736	182,307	113,652	295,959	(NA)	(NA)	(NA)
	1923.....	(NA)	333	(NA)	79,629	105,417	73,335	(NA)	89,898	196,183	113,170	309,353	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3231 (old SIC 3231)	Totals for flat glass, etc.—Con.														
	1921.....	(NA)	329	(NA)	59,741	80,665	54,748	(NA)	68,224	127,435	86,036	213,471	(NA)	(NA)	(NA)
	1919.....	(NA)	371	(NA)	83,596	100,891	77,520	(NA)	87,527	171,104	90,780	261,884	(NA)	(NA)	(NA)
	1914.....	(NA)	348	(NA)	78,711	55,205	74,502	(NA)	48,656	77,068	46,017	123,085	(NA)	(NA)	(NA)
	1909.....	(NA)	363	(NA)	72,486	44,293	68,911	(NA)	39,300	59,976	32,119	92,095	(NA)	(NA)	(NA)
	1904.....	(NA)	399	(NA)	67,009	41,228	63,969	(NA)	37,288	53,462	26,146	79,608	(NA)	(NA)	(NA)
	1899.....	(NA)	355	(NA)	55,086	29,877	52,818	(NA)	27,085	39,809	16,731	56,540	(NA)	(NA)	(NA)
	Products of purchased glass														
	1958.....	1,002	1,031	239	24,024	109,570	19,737	38,124	83,125	242,657	226,031	468,809	16,526	98	81
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,367	103,548	19,249	37,413	80,488	251,709	205,192	445,789	(S)	96	71
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,215	105,755	20,157	40,497	83,532	250,428	212,686	449,169	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,462	103,626	19,839	41,105	83,522	248,011	230,011	468,487	34,691	(NA)	(NA)
	1954.....	(NA)	(11)	(11)	21,614	87,529	18,203	36,377	68,285	193,282	190,435	386,695	5,590	97	75
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	28,647	110,685	24,466	(NA)	88,031	231,573	190,985	422,558	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,026	97,955	25,809	(NA)	80,878	215,510	186,709	402,153	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,130	89,734	25,908	(NA)	75,520	205,899	180,682	386,515	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,813	76,581	22,295	(NA)	64,861	187,714	166,140	353,788	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,756	61,525	17,762	(NA)	48,878	140,761	107,785	247,380	(NA)	(NA)	(NA)
	1947.....	(NA)	1,048	(NA)	23,920	61,508	20,748	38,884	48,449	129,857	84,595	214,873	(NA)	(NA)	(NA)
	1939.....	(NA)	557	(NA)	12,195	15,168	10,012	(NA)	10,615	23,432	26,454	49,886	(NA)	(NA)	(NA)
	1937.....	(NA)	534	(NA)	14,442	17,885	12,652	(NA)	13,981	47,265	40,744	88,009	(NA)	(NA)	(NA)
	1935.....	(NA)	532	(NA)	12,256	13,967	10,687	(NA)	10,896	39,438	29,300	68,738	(NA)	(NA)	(NA)
	1933.....	(NA)	425	(NA)	7,435	6,910	6,520	(NA)	5,559	14,292	18,585	32,877	(NA)	(NA)	(NA)
	1931.....	(NA)	610	(NA)	(NA)	(NA)	7,183	(NA)	8,650	19,077	17,250	36,327	(NA)	(NA)	(NA)
	1929.....	(NA)	735	(NA)	12,721	19,987	10,811	(NA)	14,757	33,138	31,978	65,116	(NA)	(NA)	(NA)
	1927.....	(NA)	650	(NA)	10,430	16,839	8,773	(NA)	12,575	28,786	24,967	53,753	(NA)	(NA)	(NA)
	1925.....	(NA)	628	(NA)	10,841	16,871	9,013	(NA)	12,621	29,848	33,044	62,892	(NA)	(NA)	(NA)
	1923.....	(NA)	629	(NA)	10,230	14,403	8,621	(NA)	10,921	26,595	31,900	58,495	(NA)	(NA)	(NA)
	1921.....	(NA)	642	(NA)	8,395	11,579	7,050	(NA)	8,807	18,059	20,890	38,949	(NA)	(NA)	(NA)
	1919.....	(NA)	802	(NA)	10,865	12,494	9,079	(NA)	8,974	22,417	26,857	49,274	(NA)	(NA)	(NA)
	1914.....	(NA)	817	(NA)	12,902	8,613	11,251	(NA)	6,638	13,478	13,157	26,635	(NA)	(NA)	(NA)
	1909.....	(NA)	731	(NA)	13,851	8,758	12,356	(NA)	7,013	13,521	12,151	25,672	(NA)	(NA)	(NA)
	1904.....	(NA)	572	(NA)	12,073	6,842	11,028	(NA)	5,734	11,534	9,209	20,743	(NA)	(NA)	(NA)
	1899.....	(NA)	514	(NA)	8,213	4,390	7,469	(NA)	3,625	8,223	8,531	16,754	(NA)	(NA)	(NA)

NA Not available. <sup>2</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees—for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers—for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." Unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value added (\$1,000)
3211	252,313
3221	377,161
3229	297,221
3231	192,644

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of materials (\$1,000)	
	1958	1954
3211	113,229	118,189
3221	259,078	257,959
3229	125,824	114,100
3231	206,001	179,738

Footnotes continued on next page.



## GLASS PRODUCTS

32A-7

Footnotes for Table 1—MC-32A

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of shipments (\$1,000)	
	1958	1954
3211	382,680	370,503
3221	848,073	635,121
3229	440,966	411,322
3231	445,640	372,383

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>"Flat glass," "Glass containers," and "Pressed and blown glassware, n.e.c.," formerly constituted a single classification "Glass." The separate industry figures shown for 1937-58 have been combined in order that comparable statistics can be shown for the period 1899-1958.

<sup>10</sup>This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

<sup>11</sup>Due to misclassification of small establishments in 1954 no separate establishment count is available for Industries 3229 and 3231. Combined establishment count for Industries 3229 and 3231 in 1954: 1146 establishments; with 20 or more employees: 310.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3211	Flat glass, total..	32	31	21,179	133,551	17,625	35,867	110,675	263,151	384,711	12,057	24,559	252,313	25,268
	Middle Atlantic..	7	7	4,450	28,153	3,573	7,441	22,299	50,184	78,328	2,383	7,877	85,058	9,872
	Pennsylvania...	7	7	4,450	28,153	3,573	7,441	22,299	50,184	78,328	2,383	7,877	85,058	9,872
	North Central....	11	10	8,766	56,305	7,524	15,229	47,675	124,831	178,768	5,759	9,518	107,286	8,298
	South and West...	14	14	7,963	49,093	6,528	13,197	40,701	88,136	127,615	3,915	7,164	59,968	7,098
	West Virginia..	5	5	2,851	18,079	2,405	4,658	15,780	27,904	39,693	2,085	3,617	30,013	4,193
3221	Glass containers, total.....	100	92	54,937	259,893	48,635	97,622	218,358	532,469	862,117	31,164	49,410	377,161	47,132
	Middle Atlantic..	30	26	19,064	85,485	17,246	34,049	73,334	169,298	280,542	10,371	16,757	115,414	(D)
	Pennsylvania...	16	15	9,193	39,563	8,382	16,076	34,271	74,925	125,276	4,311	8,172	52,791	7,601
	East North Central.....	22	21	16,096	76,658	14,095	28,267	64,186	154,887	248,277	9,227	15,517	121,667	15,710
	Illinois.....	9	9	7,965	38,591	7,151	14,222	33,313	83,118	130,669	2,569	7,279	66,961	7,054
	South Atlantic...	16	15	8,448	40,750	7,362	15,137	33,595	83,770	134,287	2,668	7,540	55,861	(D)
	West Virginia..	8	8	4,941	24,717	4,319	8,637	20,704	49,791	82,234	1,067	5,173	42,388	5,258
	West South Central.....	11	10	3,141	13,473	2,757	5,476	11,097	31,713	50,020	2,144	2,546	21,564	(D)
	Pacific.....	15	15	6,307	35,480	5,525	11,303	29,486	75,591	121,010	4,956	5,686	53,215	(D)
	All other divisions.....	6	5	1,881	8,047	1,650	3,390	6,660	17,210	27,981	1,798	119,443	916,461	82,755
3229	Pressed and blown glass, nec, total.	140	98	37,108	171,414	30,473	58,974	131,851	312,342	445,361	11,254	41,924	297,221	42,170
	Middle Atlantic..	40	29	13,705	68,425	10,418	20,707	47,817	99,325	143,854	4,367	16,962	118,530	(D)
	Pennsylvania...	20	18	5,505	24,361	4,821	9,092	20,014	44,661	63,901	1,185	7,041	41,889	10,410
	East North Central.....	36	29	12,391	57,792	10,416	20,033	46,063	126,828	178,056	2,772	13,628	108,781	12,892
	Indiana.....	4	3	828	3,888	667	1,643	3,023	6,604	9,304	(2)	1,404	9,617	
	Illinois.....	5	4	305	1,051	287	490	898	1,495	3,832	(2)	541	2,738	

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3231	Pressed and blown glass, etc.—Con. South Atlantic...	39	26	7,459	29,908	6,698	12,312	25,917	51,102	72,578	2,987	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West South Central.....	7	4	885	3,267	738	1,442	2,709	8,905	11,671	253	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pacific.....	7	2	105	532	93	189	454	1,020	1,918	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	7	2	105	532	93	189	454	1,020	1,918	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	All other divisions.....	11	8	2,563	11,490	2,110	4,291	8,891	25,162	37,284	824	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Products of Purchased glass, total	1,031	239	24,024	109,570	19,737	38,124	83,125	242,657	468,809	16,526	21,614	192,644	23,920
	New England.....	53	12	1,204	5,198	951	1,861	3,629	9,694	16,061	368	942	4,422	2,712
	Massachusetts.....	25	4	305	1,388	228	430	833	2,011	4,159	( <sup>2</sup> )	211	799	693
	Connecticut.....	13	7	597	2,670	482	944	1,933	4,997	8,270	( <sup>2</sup> )	700	3,508	(D)
	Middle Atlantic..	454	100	9,218	38,793	7,561	14,473	29,169	73,755	142,415	3,825	7,370	45,458	8,609
	New York.....	261	41	3,899	16,143	3,243	6,295	12,397	30,864	49,817	2,604	3,296	18,837	4,563
	New Jersey.....	98	32	2,028	7,769	1,755	3,377	6,091	13,695	24,459	506	1,148	6,591	2,071
	Pennsylvania...	95	27	3,291	14,881	2,563	4,801	10,681	29,196	68,139	715	2,925	20,028	1,975
	East North Central.....	195	61	8,600	47,245	7,055	13,963	36,849	124,882	234,340	9,765	8,662	117,674	8,642
	Ohio.....	58	21	3,464	20,866	2,785	5,501	16,431	59,753	105,987	3,326	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Indiana.....	18	6	635	2,345	545	1,102	1,902	4,984	10,312	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	74	23	3,294	18,437	2,786	5,641	14,854	47,983	88,947	5,727	2,816	40,724	2,485
	Michigan.....	33	9	1,024	4,956	776	1,454	3,199	11,096	26,158	581	800	6,141	651
	Wisconsin.....	12	2	183	641	163	265	463	1,066	2,936	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West North Central.....	40	6	389	1,795	281	519	1,149	3,237	6,466	( <sup>2</sup> )	552	4,384	448
	Missouri.....	20	3	231	1,181	158	310	780	2,002	3,683	( <sup>2</sup> )	451	3,556	281
	South Atlantic...	96	30	2,629	8,789	2,255	4,338	6,518	16,898	42,673	1,268	2,226	11,054	1,712
	Virginia.....	8	7	585	1,842	532	1,114	1,375	4,647	12,574	( <sup>2</sup> )	586	3,498	595
	West Virginia..	23	6	404	1,435	344	617	1,096	1,813	3,834	( <sup>2</sup> )	392	1,651	518
	North Carolina..	11	7	833	2,784	727	1,397	2,073	5,338	15,344	( <sup>2</sup> )	812	3,519	280
	Florida.....	34	7	446	1,313	372	670	1,017	2,568	6,811	589	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central.....	16	3	257	855	222	467	681	1,467	3,650	( <sup>2</sup> )	442	2,146	442
	West South Central.....	36	5	339	1,235	272	452	827	2,436	5,648	( <sup>2</sup> )	325	1,754	357
	Texas.....	19	2	161	487	130	191	363	1,070	2,019	( <sup>2</sup> )	144	719	202
	Mountain.....	13	...	68	245	54	99	184	449	809	( <sup>2</sup> )	88	525	41
	Pacific.....	128	22	1,320	5,415	1,086	1,952	4,119	9,839	16,747	809	1,004	5,224	957
	California.....	116	21	1,226	4,931	1,014	1,806	3,750	8,927	15,053	779	937	4,875	816

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies.<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3211, Flat Glass: North Central—Ohio, 4 (4,055); Indiana, 2 (250-499); Illinois, 1 (1,000-2,499); Michigan, 1 (500-999); Minnesota, 1 (20-99); Missouri, 2 (1,000-2,499); South and West—Maryland, 1 (500-999); Tennessee, 2 (1,000-2,499); Arkansas, 1 (500-999); Louisiana, 1 (500-999); Oklahoma, 3 (1,067); California, 1 (20-99).

SIC 3221, Glass Containers: Northeast—Rhode Island, 1 (1-19); Connecticut, 1 (50-99); Middle Atlantic—New York, 5 (1,493); New Jersey, 9 (8,378); East North Central—Ohio, 3 (1,000-2,499); Indiana, 9 (5,000 or over); Michigan, 1 (1-19); South Atlantic—Maryland, 4 (1,000-2,499); North Carolina, 1 (1-19); South Carolina, 1 (250-499); Georgia, 1 (500-999); Florida, 1 (250-499); East South Central—Tennessee, 1 (250-499); Alabama, 1 (250-499); Mississippi, 2 (500-999); West South Central—Arkansas, 1 (100-249); Louisiana, 1 (100-249); Oklahoma, 5 (1,614); Texas, 4 (1,282); Pacific—Washington, 1 (250-499); Oregon, 1 (100-249); California, 13 (5,000 and over).

SIC 3229, Pressed and Blown Glass, NEC: New England—Rhode Island, 2 (1,000-2,499); Connecticut, 3 (20-99); Middle Atlantic—New York, 12 (6,172); New Jersey, 8 (2,028); East North Central—Ohio, 25 (5,000 and over); Michigan, 2 (500-999); West North Central—Kansas, 1 (100-249); South Atlantic—Maryland, 1 (20-99); West Virginia, 32 (6,228); South Carolina, 2 (1,000-2,499); Florida, 4 (1-19); East South Central—Kentucky, 3 (500-999); Tennessee, 1 (250-499); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (100-249); Oklahoma, 3 (500-999); Texas, 3 (20-99).

SIC 3231 Products of Purchased Glass: New England—New Hampshire, 1 (1-19); Vermont, 1 (250-499); Rhode Island, 13 (20-99); West North Central—Minnesota, 12 (100-249); Iowa, 2 (1-19); Nebraska, 2 (1-19); Kansas, 4 (20-99); South Atlantic—Delaware, 1 (1-19); Maryland, 14 (250-499); District of Columbia, 1 (1-19); South Carolina, 1 (1-19); Georgia, 3 (100-249); East South Central—Kentucky, 3 (1-19); Tennessee, 8 (20-99); Alabama, 2 (20-99); Mississippi, 3 (100-249); West South Central—Arkansas, 4 (100-249); Louisiana, 5 (1-19); Oklahoma, 8 (20-99); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); Oregon, 4 (1-19); Colorado, 5 (20-99); New Mexico, 3 (1-19); Arizona, 1 (1-19); Utah, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 8 (20-99); Oregon, 4 (1-19).

<sup>2</sup> Less than \$500 thousand.<sup>3</sup> This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 3.—Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Flat glass (SIC 3211)	Glass containers (SIC 3221)	Pressed and blown glass, nec (SIC 3229)	Products of purchased glass (SIC 3231)
Primary product specialization ratio <sup>1</sup> .....	<sup>3</sup> 90	99	98	98
Coverage ratio <sup>2</sup> .....	(D)	99	97	81
Number of establishments, total.....	32	100	140	1,031
With 1-19 employees.....	1	8	42	792
With 20-99 employees.....	7	3	30	195
With 100 employees or more.....	24	89	68	44
Proprietors and working partners.....Number..	...	...	33	661
All employees:				
Number (average for the year).....	21,179	54,937	37,108	24,024
Payroll.....\$1,000..	133,551	259,893	171,414	109,570
Production workers:				
Number (average for the year).....	17,625	48,635	30,473	19,737
March.....	19,228	46,985	30,813	19,104
May.....	17,648	48,915	29,251	18,979
August.....	20,102	50,736	30,286	20,272
November.....	13,525	47,873	31,592	20,772
Man-hours.....1,000..	35,867	97,622	58,974	38,124
January-March.....do....	10,281	23,310	15,221	9,180
April-June.....do....	8,486	24,584	14,234	9,190
July-September.....do....	10,095	25,535	13,880	9,811
October-December.....do....	7,005	24,193	15,639	9,943
Wages.....\$1,000..	110,675	218,358	131,851	83,125
Cost of materials, etc., total.....do....	115,115	333,554	128,892	226,031
Materials, parts, containers, and supplies consumed.....do....	94,234	273,197	104,081	199,597
Cost of resales.....do....	1,886	14,119	3,068	20,030
Fuels consumed.....do....	13,373	33,559	15,564	2,484
Electricity purchased.....do....	5,603	11,933	6,060	2,482
Contract work.....do....	19	746	119	1,462
Value of shipments (including resales), total.....do....	384,711	862,117	445,361	468,809
Value of resales.....do....	2,031	14,044	4,395	23,169
Value added by manufacture, adjusted.....do....	263,151	532,469	312,342	242,657
Manufacturers' inventories:				
Beginning of year, total.....do....	64,852	103,232	68,186	60,070
Finished products.....do....	18,797	71,036	39,572	28,156
Work-in-process.....do....	9,297	998	9,053	11,464
Materials, supplies, fuel, etc.....do....	36,758	31,198	19,561	20,450
End of year, total.....do....	55,162	106,920	62,904	59,663
Finished products.....do....	12,745	75,611	35,965	27,438
Work-in-process.....do....	10,015	1,227	8,532	11,708
Materials, supplies, fuel, etc.....do....	32,402	30,082	18,407	20,517
Expenditures for plant and equipment, total.....do....	12,768	31,997	11,497	17,575
New, total.....do....	12,057	31,164	11,254	16,526
New structures and additions to plant.....do....	1,705	10,728	2,969	4,983
New machinery and equipment.....do....	10,352	20,436	8,285	11,543
Used plant and equipment.....do....	711	833	243	1,049

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and saleable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3211	Flat glass:											
	Number of establishments.....	32	...	...	1	2	5	1	6	9	8	...
	All employees:											
	Number.....	21,179	...	...	80	(D)	499	(D)	2,305	6,058	12,237	..
	Payroll.....\$1,000..	133,551	...	...	359	(D)	2,415	(D)	13,317	37,986	79,474	...
	Value added, adjusted..do....	263,151	...	...	665	(D)	3,214	(D)	20,652	60,065	178,555	...
	Value of shipments.....do....	384,711	...	...	912	(D)	7,904	(D)	29,174	93,628	253,093	...
	Capital expend., new...do....	12,057	...	...	...	1,488	(D)	(D)	(D)	2,686	7,883	...
3221	Glass containers:											
	Number of establishments.....	100	4	...	4	...	3	20	31	23	14	1
	All employees:											
	Number.....	54,937	70	...	(D)	...	252	3,733	10,679	17,172	23,031	(D)
	Payroll.....\$1,000..	259,893	308	...	(D)	...	1,064	17,884	48,787	81,396	110,454	(D)
	Value added, adjusted..do....	532,469	600	...	(D)	...	2,002	34,344	99,025	174,011	222,487	(D)
	Value of shipments.....do....	862,117	985	...	(D)	...	3,698	62,972	169,015	270,749	354,698	(D)
	Capital expend., new...do....	31,164	(1)	...	(D)	...	878	4,300	5,980	11,455	8,508	(D)
3229	Pressed and blown glass, nec:											
	Number of establishments.....	140	14	10	18	15	15	29	20	11	7	1
	All employees:											
	Number.....	37,108	34	61	230	493	1,132	4,948	7,491	7,629	15,090	(D)
	Payroll.....\$1,000..	171,414	97	198	865	2,293	4,311	20,441	31,937	36,312	74,960	(D)
	Value added, adjusted..do....	312,342	189	277	1,484	3,222	7,885	37,716	59,952	87,631	113,986	(D)
	Value of shipments.....do....	445,361	417	536	2,798	5,460	10,829	54,212	81,176	122,369	167,564	(D)
	Capital expend., new...do....	11,254	(1)	(1)	(1)	(1)	(1)	952	1,949	1,088	6,878	(D)
3231	Products of purchased glass:											
	Number of establishments.....	1,031	469	184	139	139	56	33	8	1	2	...
	All employees:											
	Number.....	24,024	968	1,234	1,902	4,304	4,018	4,871	6,727	(D)	(D)	...
	Payroll.....\$1,000..	109,570	3,357	4,890	8,343	16,932	15,996	20,261	39,791	(D)	(D)	...
	Value added, adjusted..do....	242,657	7,433	9,707	14,751	29,089	27,296	36,825	117,556	(D)	(D)	...
	Value of shipments.....do....	468,809	12,677	15,746	26,578	60,389	54,123	81,963	217,333	(D)	(D)	...
	Capital expend., new...do....	16,526	714	541	2,121	1,870	1,167	1,278	8,835	(D)	(D)	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
						Col. B. Col. B+C (percent)				Col. G Col. F (percent)
		(\$1,000)	(\$1,000)	\$1,000)	(\$1,000)	(percent)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
3211	Flat glass.....1958..	384,711	(D)	(D)	2,369	<sup>3</sup> 90	546,991	(D)	(D)	(D)
	1954..	372,689	(D)	(D)	(D)	<sup>3</sup> 90	499,267	(D)	(D)	(D)
3221	Glass containers:.....1958..	862,117	836,776	9,868	15,473	99	841,560	836,776	4,784	99
	1954..	646,104	624,689	9,749	11,666	98	628,916	624,689	4,227	99
3229	Pressed and blown glass, nec....1958..	445,361	431,911	8,668	4,782	98	443,390	431,911	11,479	97
	1954..	416,021	401,961	8,503	5,557	98	416,997	401,961	15,036	96
3231	Products of purchased glass.....1958..	468,809	430,703	10,607	27,499	98	533,145	430,703	102,442	81
	1954..	386,695	354,930	12,293	19,472	97	476,029	354,930	121,099	75

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

D Withheld to avoid disclosing figures for individual companies.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. See headnote to table 5A. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries.)

Prod. class code	Flat glass industry	Flat glass (SIC 3211)	Other industries	All industries	Prod. class code	Pressed and blown glass, nec, industry	Pressed and blown glass, nec (SIC 3229)	Other industries	All industries
	Value of shipments.....	384,711	xxx	xxx		Value of shipments.....	445,361	xxx	xxx
	Primary products.....	(D)	(D)	<sup>1</sup> 546,991		Primary products.....	431,911	11,479	443,390
32111	Sheet (window) glass.....	(D)	(D)	92,339	32291	Table, kitchen, art, and novelty glassware.....	(D)	(D)	149,006
32112	Plate glass.....	(D)	(D)	200,823	32292	Lighting and electronic glassware	(D)	(D)	131,801
32114	Other flat glass.....	(D)	(D)		32293	Glass fiber.....	59,670	...	59,670
32113	Laminated glass.....	(D)	(D)	<sup>1</sup> 253,829	32294	Other pressed and blown glassware	(D)	(D)	102,913
	Secondary products.....	(D)	xxx	xxx		Secondary products.....	<sup>3</sup> 8,668	xxx	xxx
	Miscellaneous receipts.....	2,369	xxx	xxx		Miscellaneous receipts.....	4,782	xxx	xxx
Prod. class code	Glass containers industry	Glass containers (SIC 3221)	Other industries	All industries	Prod. class code	Products of purchased glass industry	Products of purchased glass (SIC 3231)	Other industries	All industries
	Value of shipments.....	862,117	xxx	xxx		Value of shipments.....	468,809	xxx	xxx
32210	Glass containers.....	836,776	4,784	841,560	32313	Primary products.....	430,703	102,442	<sup>1</sup> 533,145
	Secondary products.....	9,868	xxx	xxx	32315	Laminated glass.....			<sup>1</sup> 253,829
					32316	Mirrors.....			87,974
3229	Pressed and blown glass, nec.....	3,311	xxx	xxx	32310	Other glass products, made of purchased glass.....	430,703	102,442	157,095
	Other secondary products.....	<sup>2</sup> 6,557	xxx	xxx		Other glass products, made of purchased glass, not specified by kind.....			34,247
	Miscellaneous receipts.....	15,473	xxx	xxx		Secondary products.....	10,607	xxx	xxx
						Miscellaneous receipts.....	27,499	xxx	xxx
	Sales of products bought and resold.....	14,044	xxx	xxx		Contract and commission work.....	2,646	xxx	xxx
	Other miscellaneous receipts.....	1,429	xxx	xxx		Sales of products bought and resold.....	23,169	xxx	xxx
						Other miscellaneous receipts.....	1,684	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes totals for laminated glass (product class 32113 and 32313) which is primary to Industry 3211 when made by primary glass producers, and to Industry 3231, when made from purchased glass. Separate totals are withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Other secondary products of the Glass Container Industry include more than \$2,000,000 of product class 26530, Corrugated and solid fiber boxes, including pallets, the exact amount is withheld to avoid disclosing figures for individual companies.

<sup>3</sup>Other secondary products of the Pressed and Blown Glass, NEC, Industry, include more than \$2,000,000 of product class 32210, Glass containers, and of product class 32962, Mineral wool for industrial and equipment insulation, the exact amounts are withheld to avoid disclosing figures for individual companies.

Table 6.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	1958						1954			
			Total production	Total shipments including inter-plant transfers		Transfers to other plants of the same company		Total shipments including inter-plant transfers		Transfers to other plants of the same company		
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
3211---	Flat glass, total <sup>1</sup> .....	.....	xxx	xxx	546,991	xxx	xxx	xxx	499,267	xxx	xxx	
32111--	Sheet (window) glass (not rolled) including colored.....	1,000 boxes 50 sq. ft. each single strength or equivalent..	18,177	17,911	92,339	xxx	(D)	xxx	99,124	xxx	xxx	
3211121	Uncolored: Thin, including picture glass..	...do.....	303	313	1,460	xxx	xxx	421	1,691	(D)	(D)	
3211122	Single strength.....	...do.....	8,563	8,231	38,144	xxx	xxx	11,260	48,772	1,967	8,497	
3211123	Double strength, including greenhouse.....	...do.....	4,679	4,725	26,046	xxx	xxx	4,380	28,066	709	3,644	
3211124	Heavy sheet.....	...do.....	3,907	3,945	21,262	xxx	xxx	1,720	20,595	102	811	
3211125	Tinted or colored (all thicknesses).....	...do.....	725	697	5,427	xxx	xxx	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	
3211211	Plate glass.....	1,000 sq.ft.	521,338	390,414	144,771	xxx	(D)	xxx	163,924	xxx	43,233	
32114--	Other flat glass:	...do.....										
3211411	Rolled <sup>3</sup> and wire glass.....	...do.....										
3211498	Other flat glass (except laminated), such as plate glass blanks, bent and tempered glass, glass doors, multiple-sealed insulating units, etc., from glass made in the same establishment.....	...do.....										
32113--	Laminated glass, including safety glass <sup>4</sup> .....	.....	xxx	xxx	253,829	xxx	xxx	xxx	236,219	xxx	xxx	
3211311	Laminated plate 1/4" and under...	1,000 sq.ft.	xxx	115,633	216,696	xxx	xxx	109,446	177,553	xxx	xxx	
3211311												
3211331	Laminated plate over 1/4".....	...do.....	xxx	xxx	37,133	xxx	xxx	65,342	52,012	xxx	xxx	
3211351	Laminated sheet (window) glass...	...do.....	xxx	xxx	xxx	xxx	xxx	xxx	6,654	xxx	xxx	
3211371	Other laminated glass.....	...do.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
3231398												
			1958				1954					
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers		
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)		Quantity	Value (\$1,000)	
3221---	Glass containers, total.....	.....	xxx	xxx	841,560	xxx	xxx	xxx	xxx	628,916		
			Domestic shipments, machine made: Narrow neck:	1,000 gross.	R15,422	105,530	46,800	12,745	74,337			
3221011	Food.....	...do.....										
3221013	Medicinal and health supplies..	...do.....	R52,714	16,102	62,120	7,163	14,629	51,436				
3221015	Chemical, household and industrial.....	...do.....										
3221017	Toiletries and cosmetics.....	...do.....	8,952	9,834	34,932	1,087	9,276	55,458				
3221019	Beverage, returnable.....	...do.....										
3221021	Beverage, nonreturnable.....	...do.....	1,372	1,334	7,495	2,561	8,918	26,670				
3221023	Beer, returnable.....	...do.....										
3221025	Beer, nonreturnable.....	...do.....	3,218	2,695	18,110	7,739	2,125	12,929				
3221027	Liquor.....	...do.....										
3221029	Wine.....	...do.....	8,772	8,604	46,211	9,325	7,729	34,906				
			9,983	9,454	80,995	4,457	8,709	62,990				
			R4,760	R4,538	40,550	4,242	4,242	32,817				
			Widemouth:	1,000 gross.	R42,199	216,190	42,870	33,150	144,994			
3221030	Food, including fruit jars and jelly glasses.....	...do.....										
3221032	Medicinal and health supplies..	...do.....	R53,537	4,628	18,829	9,013	1,855	8,175				
3221033	Chemical, household and industrial.....	...do.....										
3221034	Toiletries and cosmetics.....	...do.....	695	655	11,873	1,951	1,863	7,462				
3221036	Packer's tumblers.....	...do.....										
3221037	Dairy products.....	...do.....	1,961	1,923	4,417	2,945	1,936	9,148				
3221062	Export shipments, machine made (all types).....	...do.....	xxx	2,897	13,214	xxx	2,779	12,164				
3221071	Net weight of machine-made glass containers packed.....	1,000 lbs...	xxx	10,789,356	xxx	xxx	9,930,469	xxx				
3221000	Hand-made, domestic and export shipments (all types) and glass containers, not specified by kind <sup>5</sup>	1,000 gross.	(NA)	(NA)	3,516	18	18	1,737				

See footnotes at end of table.



Table 6.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958 total shipments including inter- plant transfers		1954 Total production (quantity)		Total shipments including inter- plant transfers
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
3229---	Pressed and blown glass, nec, total <sup>a</sup> .....	.....	xxx	443,390	xxx	xxx	416,997
32291--	Table, kitchen, art, and novelty glassware.....	.....	xxx	149,006	xxx	xxx	123,478
	Machine-made (including glassware made by machine with automatic and semi-automatic feeds):						
3229115	Tumblers, goblets, and other stemware.....	1,000 dozen.	56,195	50,887	66,948	68,216	43,523
3229118	Tableware (designed for serving food and drink; excluding tumblers, goblets, and other stemware).....	...do.....	23,297	27,401	26,387	22,751	24,113
3229121	Kitchenware (designed for preparing and storing food in homes and commercial establishments; excluding cooking ware)	...do.....	5,313	8,989	6,910	6,184	8,886
3229124	Ornamental, decorative, and novelty glassware; and smokers' accessories.....	...do.....	6,014	8,699	8,099	7,518	7,062
	Hand-made:						
	Pressed ware:						
3229131	Tumblers, goblets, and other stemware.....	...do.....	368	2,344	232	234	1,783
3229132	Tableware (excluding tumblers, goblets, and other stemware)	...do.....	459	6,194	840	845	7,685
3229133	Ornamental, decorative, and novelty glassware; and smokers' accessories.....	.....	xxx	5,275	xxx	xxx	3,501
	Blown ware:						
3229134	Tumblers.....	1,000 dozen.	479	2,050	599	513	1,459
3229135	Goblets and other stemware.....	...do.....	1,029	7,483	1,292	1,269	7,948
3229136	Ornamental, decorative, and novelty glassware; and smokers' accessories (including ornamental tableware)....	.....	xxx	5,662	xxx	xxx	4,084
	Cooking ware (heat-resistant, heat-treated, and annealed):						
3229137	Hand- and machine-made coffee and beverage makers, complete units only (excluding tea kettles).....	1,000 pieces	4,259	6,211	64,540	63,811	13,434
3229138	Machine-made custard cups, cake and bread bakers, casseroles and pie plates.....	...do.....	52,195	12,041			
3229139	Other machine-made and hand-made cooking ware (including top-of-stove ware).....	.....	xxx	5,770			
32292--	Lighting and electronic glassware.....	.....	xxx	131,801	xxx	xxx	149,991
3229245	Bowls, all types.....	.....	xxx	2,841	xxx	xxx	2,230
3229246	Enclosing globes, all types.....	.....	xxx	3,430	xxx	xxx	3,865
3229247	Shades, reflectors, and torchiers.....	.....	xxx	4,059	xxx	xxx	4,448
3229248	Lantern globes (oil and electric).....	1,000 dozen.	232	803	323	326	801
3229249	Lamp chimneys.....	...do.....	684	1,114	984	1,010	1,274
3229251	Lamp parts.....	.....	xxx	4,529	xxx	xxx	3,567
3229252	Railroad, marine, and traffic lighting glassware.....	.....	xxx	1,957	xxx	xxx	2,409
3229253	Electrical discharge tubing (including fluorescent and neon)..	1,000 lin.ft.	xxx	9,321	468,110	478,277	8,540
3229254	Electric-light bulb blanks, electronic-tube blanks (including radio, X-ray, radar, and special tubes), television-tube blanks and parts, and tubing, cane and other glass parts for electronic tubes and devices.....	.....	xxx	97,538	xxx	xxx	115,001
3229255	Shield and plates for fluorescent lighting fixtures.....	.....	xxx	599	xxx	xxx	1,290
3229256	Other interior and exterior lighting glass (including oil founts and prisms).....	.....	xxx	5,630	xxx	xxx	6,566
3229311 } 3229331 }	Glass fiber, for textile and other uses, except insulation.....	1,000 pounds	113,484	59,670	xxx	58,700	33,985
32294--	Other pressed and blown glassware.....	.....	xxx	102,913	xxx	xxx	109,543
	Technical and scientific glassware:						
3229477	Tubing and cane for electric light bulbs.....	1,000 pounds	xxx	6,878	27,839	27,947	5,497
3229478	Tubing (excluding fluorescent and neon); rods and cane, all types (except electrical).....	...do.....	16,419	7,555	12,488	11,588	4,481
3229479	Insulators, all types.....	...do.....	9,734	986	11,236	15,523	1,507
3229481	Scientific and laboratory glassware.....	.....	xxx	724,465	xxx	xxx	223,785
3229482	All other technical glassware (except electronic tube blanks)	.....	xxx	3,506	xxx	xxx	932
3229483	Industrial glassware, including gauge glass, instrument faces, machine parts, glass knobs, meter covers, pumps, battery jars, etc.....	.....	xxx	14,825	xxx	xxx	16,369
3229484	Optical instrument lens blanks.....	.....	xxx	1,450	xxx	xxx	2,126
	All other pressed and blown glassware:						
3229485	Machine-made (including glass blocks; sun-glass lenses, and other eye protective lenses, Christmas tree ornaments; stationers' ware; marbles; nursery bottles; lantern and searchlight lenses; automotive lenses, including sealed beam; ophthalmic lens blanks, etc.).....	.....	xxx	39,707	xxx	xxx	50,300
3229486	Hand-made (including kitchenware other than cooking ware, stationers' ware, and nursery bottles).....	.....	xxx	1,262	xxx	xxx	1,218
3229498	Other pressed and blown glassware, nec.....	.....	xxx	2,279	xxx	xxx	3,328

See footnotes at end of table.

Table 6.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3231---	Products of purchased glass, except laminated, total.....		xxx	279,316	xxx	239,810
32315--	Mirrors.....		xxx	87,974	xxx	68,867
3231511	Mirrors - framed, decorated, and undecorated: Plate glass: Quantity reported.....	1,000 sq. ft. }	27,053	24,737	11,323 xxx	16,236 6,459
3231551	Quantity not reported..... Other glass: Quantity reported.....	1,000 sq. ft. }	(NA)	5,371	4,722 xxx	3,619 1,655
3231561	Quantity not reported..... Mirrors - unframed, decorated, and undecorated: Plate glass: Quantity reported.....	1,000 sq. ft. }	(NA)	24,666	21,371 xxx	22,106 5,343
3231563	Quantity not reported..... Other glass: Quantity reported.....	1,000 sq. ft. }	(NA)	11,222	10,519 xxx	4,214 3,111
3231598	Quantity not reported..... Automobile rearview mirrors.....		xxx	16,208	( <sup>a</sup> )	( <sup>a</sup> )
3231500	Mirrors, not specified by kind.....		xxx	5,770	( <sup>a</sup> )	6,124
32316--	Other glass products made of purchased glass.....		xxx	157,095	xxx	170,943
3231651	Watch crystals.....		xxx	746	xxx	1,840
3231631	Glassware, etched, ornamented, bent, etc.: Table, kitchen, art, and novelty glassware: Tumblers, goblets, and other stemware.....		xxx	12,052	xxx	14,022
3231635	Tableware, except tumblers, goblets, and other stemware.....		xxx	6,514		
3231639	All other glassware, except flat glass products (including technical and scientific).....		xxx	44,924		
3231698	Other glass products (except laminated) such as stained and leaded glass, automobile glass other than safety (cut, beveled, and polished) beveled and polished plate glass bent plate and sheet glass, etc.....		xxx	92,859	xxx	155,081
3231000	Products of purchased glass, not specified by kind.....		xxx	34,247		
32113-- 32313--	Laminated glass, including safety glass <sup>10</sup> .....		xxx	253,829	xxx	236,219

D Withheld to avoid disclosing figures for individual companies.

NA Not available. <sup>†</sup>Revised.

xxx Not applicable.

<sup>1</sup>Includes laminated glass (product codes 3211311-3211371 and 3231311-3231398).

<sup>2</sup>Not reported separately as such, included in figures for uncolored sheet glass.

<sup>3</sup>Includes glass of which one or both surfaces are roughed, figured, ribbed or otherwise impressed.

<sup>4</sup>Includes laminated glass made in the Flat Glass Industry (3211) and laminated glass made in Products of Purchased Glass Industry (3231) combined to avoid disclosing figures for individual companies.

<sup>5</sup>Not directly comparable, includes hand-made, domestic and export shipments only for 1954. Includes mostly glass containers not specified by kind for 1958.

<sup>6</sup>For 1958, revised product detail, except shipments of glass fiber, from Current Industrial Reports Series M32E-09, "Pressed and blown glassware (except glass containers)."

<sup>7</sup>Includes products made from glass produced in the same establishments and from purchased glass.

<sup>8</sup>An indeterminate amount of automobile rearview mirrors was reported in product codes 3231511-3231563 in 1954.

<sup>9</sup>Includes \$14,439,000 reported by small establishments that were not requested to report breakdown of shipments by specific product.

<sup>10</sup>Includes laminated glass made in the Flat Glass Industry (3211) and laminated glass made in Products of Purchased Glass Industry (3231). Combined to avoid disclosing figures of individual companies. For detailed data, see products of Industry 3211 above.



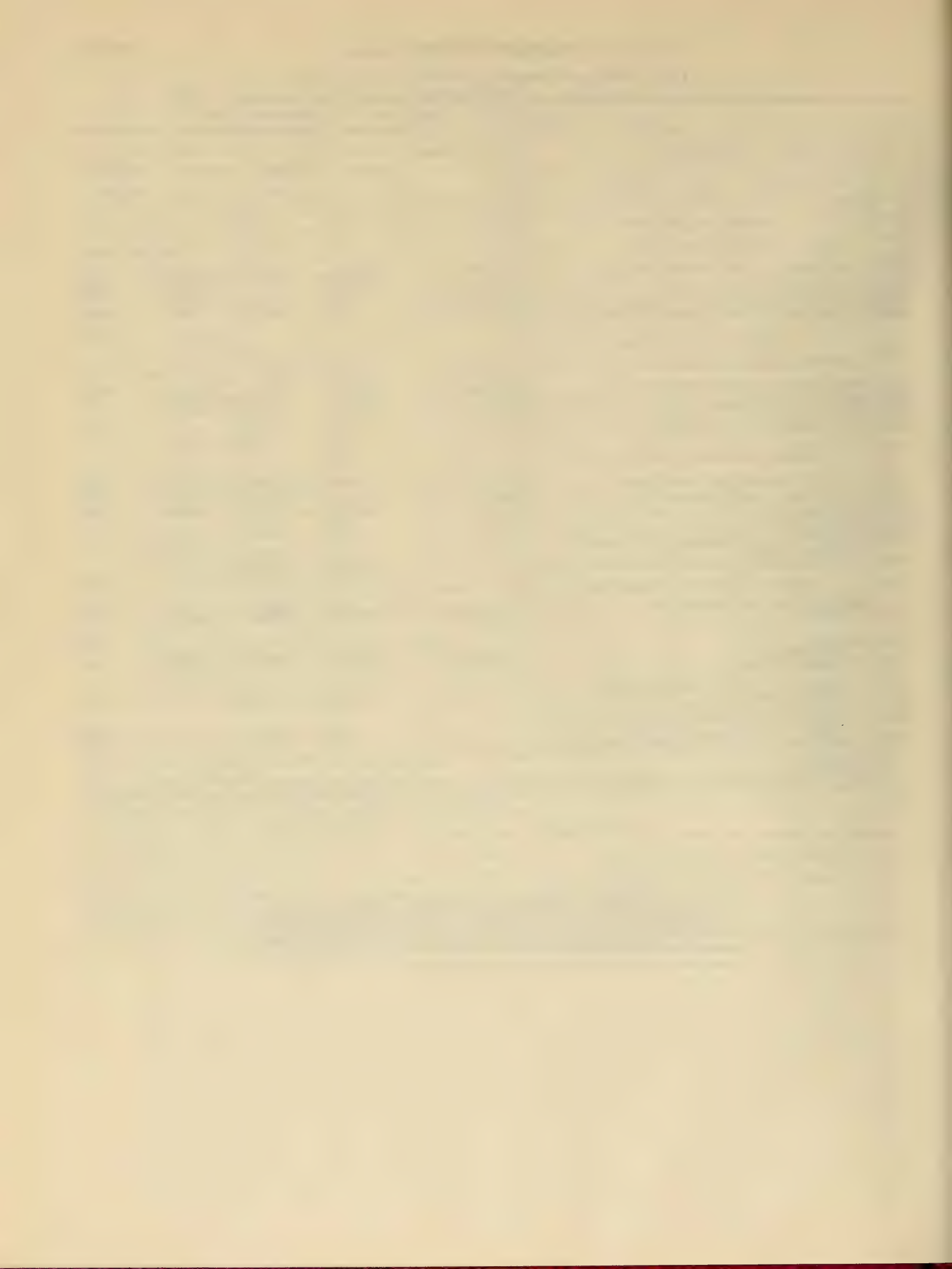
Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	Consumption of materials			
			1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3211—FLAT GLASS					
	Materials, containers and supplies, total.....		xxx	94,234	xxx	101,407
281231	Sodium carbonate (soda ash) (98-100% Na <sub>2</sub> CO <sub>3</sub> ).....	Short tons.....	248,348	9,096	276,223	9,689
144111	Glass sand, all types.....	do.....	1,348,968	6,048	1,403,138	5,828
281971	Sodium sulphate (including salt cake).....	do.....	49,275	1,719	50,073	1,405
240011	Wooden boxes and crates.....		xxx	10,338	xxx	84,485
970099	All other materials, parts, containers and supplies consumed..		xxx	67,033		
	INDUSTRY 3221—GLASS CONTAINERS					
	Materials, containers, and supplies, total.....		xxx	273,197	xxx	221,917
281231	Sodium carbonate (soda ash) (98-100% Na <sub>2</sub> CO <sub>3</sub> ).....	Short tons.....	1,258,695	44,711	1,121,125	38,676
144111	Glass sand, all types.....	do.....	3,832,113	20,416	3,315,757	17,950
281971	Sodium sulfate (including salt cake).....	do.....	10,177	362	xxx	165,291
260091	Paperboard containers.....		xxx	85,783		
970099	All other materials and supplies consumed.....		xxx	121,925		
	INDUSTRY 3229—PRESSED AND BLOWN GLASS, NEC					
	Materials, containers, and supplies, total.....		xxx	104,081	xxx	94,172
281231	Sodium carbonate (soda ash) (98-100% Na <sub>2</sub> CO <sub>3</sub> ).....	Short tons.....	124,801	4,618	142,839	4,872
144111	Glass sand, all types.....	do.....	505,842	4,163	589,894	3,852
322915	Other glass products.....		xxx	4,734	xxx	85,448
260091	Paper and paperboard containers.....		xxx	17,643		
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	67,924	xxx	
973000	Materials, containers, and supplies, not specified by kind..		xxx	4,999		
	INDUSTRY 3231—PRODUCTS OF PURCHASED GLASS					
	Materials, containers, and supplies, total.....		xxx	199,597	xxx	174,428
321111	Plate glass.....	1,000 sq. ft.....	262,085	79,363	234,922	60,117
321131	Sheet glass:					
	Quantity reported.....	do.....	144,917	17,894	210,688	20,421
	Quantity not reported.....		xxx	6,464		
322911	Glass tumblers, stemware and other tableware.....		xxx	5,137	}	(1)
322915	Other glass products.....		xxx	10,155		
260091	Paper and paperboard containers.....		xxx	5,544		
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	55,209	xxx	80,652
973000	Materials, containers, and supplies not specified by kind..		xxx	219,831	xxx	13,238

xxx Not applicable.

<sup>1</sup>Not separately collected, included in code 970099 "All other materials and components, parts containers and supplies consumed", in 1954.<sup>2</sup>Approximately 60 percent of this total accounted for by establishments with less than 10 employees, which were not asked to report detail material costs.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958, is omitted for industries that have a high degree of primary product specialization and consist of only one product class, since the statistics for the specialized establishments would be approximately the same as those for the entire industry in table 3.





# Cement; Structural Clay Products

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries—

## S.I.C. Code and Title (1957 Edition)

- 3241—Cement, Hydraulic
- 3251—Brick and Structural Clay Tile
- 3253—Ceramic Wall and Floor Tile
- 3255—Clay Refractories
- 3259—Structural Clay Products, Not Elsewhere Classified

In 1958, establishments primarily engaged in manufacturing cement, brick, ceramic tile, clay refractories and other structural clay products included on their Census of Manufactures reports all of the activities at each establishment including the operation of mines, pits, or quarries at the same site. Selected data for mining and quarrying activities operated in conjunction with the manufacturing plant were reported separately in the 1958 Census of Manufactures and are shown in table 9 in this report, as well as in the 1958 report for the Census of Mineral Industries. Establishments included in the Census of Mineral Industries produced none of the manufactured products for which data are shown in table 6A in this report.

### 3241—Cement, Hydraulic

This industry comprises establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and puzzolan cements. For a detailed list of products of Industry 3241, refer to table 6A, product codes 3241011 to 3241051.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Cement, Hydraulic Industry in 1958 totaled \$1,073 million. This included shipments of cement, hydraulic, including containers (primary products), valued at \$1,060 million, shipments of other products (secondary products), valued at \$8 million, and miscellaneous receipts of \$5 million.

This industry's shipments of hydraulic cement (primary products) in 1958 represented 99 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was also 99 percent. Virtually all of the hydraulic cement produced both in 1958 and 1954 was produced by plants in this industry.

In its annual report, Minerals Yearbook, the Bureau of Mines of the Department of the Interior publishes figures on production, stocks, and shipments for the plants covered in this report, including detail for special portland cements. The variation between the two sets of data is due primarily to differences in the reports from individual companies submitted to the two agencies.

### 3251—Brick and Structural Clay Tile

This industry comprises establishments primarily engaged in manufacturing clay building brick, vitrified paving brick and hollow structural tile. Establishments primarily engaged in manufacturing clay firebrick are classified in Industry 3255, Clay Refractories; nonclay firebrick in Industry 3297, Nonclay Refractories; sand lime brick in Industry 3299, Nonmetallic Minerals, N.E.C.; and glass brick in Industry 3229, Pressed And Blown Glass, N.E.C. For a detailed list of products of Industry 3251, refer to table 6A, product codes 3251111 to 3251251.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system. Under the old S.I.C., however, the title of this industry was "Brick And Hollow Tile."

Value of shipments and other receipts of the Brick and Structural Clay Tile industry in 1958 totaled \$287 million. This included shipments of brick and structural clay tile (primary products), valued at \$265 million, shipments of other products (secondary products), valued at \$10 million, and miscellaneous receipts of \$12 million.

This industry's shipments of brick and structural clay tile (primary products) in 1958, as in 1954, represented 96 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of structural clay products, n.e.c., \$4 million and other secondary products, \$6 million.

Industry 3251 shipments of brick and structural clay tile in 1958 represented 98 percent of the brick and structural clay tile, valued at \$269 million, shipped by all manufacturing industries. The comparable 1954 coverage ratio was also 98 percent.

### 3253—Ceramic Wall And Floor Tile

This industry comprises establishments primarily engaged in manufacturing ceramic tile, mosaic tile, glazed and enameled tile, including faience and other types of ceramic wall and floor tile. Establishments primarily engaged in manufacturing hollow structural tile and ceramic and salt glazed facing tile are classified in Industry 3251, Brick and Structural Tile; drain tile in Industry 3259, Structural Clay Products, N.E.C.; asphalt floor tile in Industry 3292, Asbestos Products; rubber tile in Industry 3069, Fabricated Rubber Products, N.E.C.; cork wall and floor tile in Industry 2499, Wood Products, N.E.C.; and other hard surface floor coverings in Industry 3982, Hard Surface Floor Covering. For a detailed list of products of Industry 3253, refer to table 6A, product codes 3253011 to 3253071.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were slightly changed as to content. Quarry tile and promenade tile formerly classified in Industry 3259, Structural Clay Products, N.E.C., are included in Industry 3253, Ceramic Wall and Floor Tile.



Value of shipments and other receipts of the Ceramic Wall and Floor Tile Industry in 1958 totaled \$135 million. This included shipments of ceramic wall and floor tile (primary products), valued at \$123 million, shipments of other products (secondary products), valued at \$8 million, and miscellaneous receipts of \$5 million.

This industry's shipments of ceramic wall and floor tile (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3253 shipments of ceramic wall and floor tile in 1958 represented 99 percent of the ceramic wall and floor tile, valued at \$124 million, shipped by all manufacturing industries. Due to the change in the content of this industry as a result of the 1957 S.I.C. revisions, no comparable specialization or coverage ratios are available for 1954.

### 3255--Clay Refractories

This industry comprises establishments primarily engaged in manufacturing clay firebrick, crucibles, and other heat-resisting clay products such as glass-house tank blocks, stoppers, floaters, and rings. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories whether of carbon bond or ceramic bond, are classified in Industry 3297, Nonclay Refractories. For a detailed list of products of Industry 3255, refer to table 6A, product codes 3255011 to 3255098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Clay Refractories Industry in 1958 totaled \$163 million. This included shipments of clay refractories (primary products), valued at \$146 million; shipments of other products (secondary products), valued at \$11 million; and miscellaneous receipts of \$7 million.

This industry's shipments of clay refractories (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent. Secondary products shipped by this industry in 1958 consisted mainly of nonclay refractories, \$4 million; and other secondary products, \$7 million.

Industry 3255 shipments of clay refractories in 1958 represented 92 percent of the clay refractories, valued at

\$158 million, shipped by all industries. The comparable 1954 coverage ratio was 95 percent.

Detailed product information for 1958 for this industry was obtained from the Current Industrial Reports series, M32C-09, Refractories, Summary For 1959.

### 3259--Structural Clay Products, N.E.C.

This industry comprises establishments primarily engaged in manufacturing clay sewer pipe and kindred products made of clay, and structural clay products, n.e.c., such as architectural terra cotta, roofing tile, stove lining, flue lining, chimney pipes, thimbles and tops, wall coping, segment blocks, drain tile and adobe brick. Establishments primarily engaged in manufacturing concrete sewer pipe are classified in Industry 3271, Concrete Block and Brick, and cast iron sewer pipe in Industry 3321, Gray Iron Foundries. For a detailed list of products of Industry 3259, refer to table 6A, product codes 3259111 to 3259298.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Under the 1957 classification system, Industry 3259, Structural Clay Products, N.E.C., includes Industry 3254, Sewer Pipe, and Industry 3259, Structural Clay Products, N.E.C., from the 1954 classification system.

In addition, quarry and promenade tile formerly classified in Industry 3259 (old S.I.C.), are now considered primary to Industry 3253, Ceramic Wall and Floor Tile.

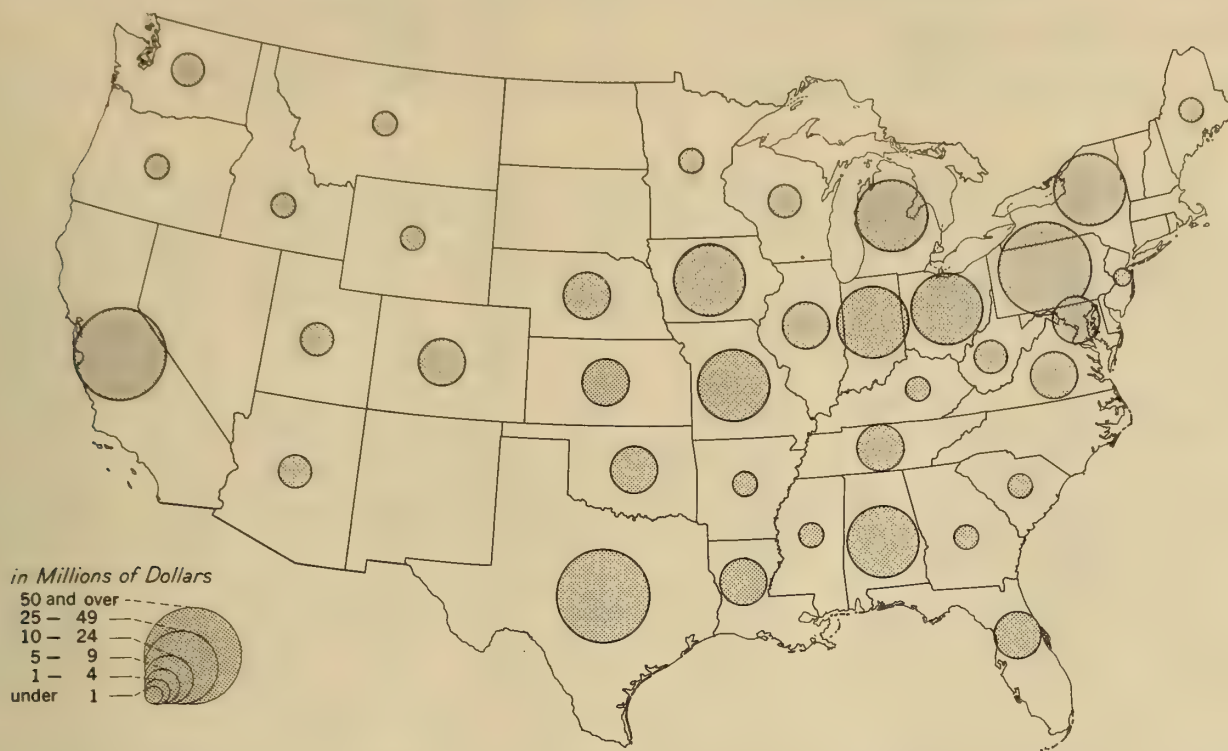
Value of shipments and other receipts of the Structural Clay Products, N.E.C., Industry in 1958 totaled \$135 million. This included shipments of structural clay products, n.e.c., (primary products), valued at \$125 million, shipments of other products (secondary products), valued at \$4 million, and miscellaneous receipts of \$6 million.

This industry's shipments of structural clay products, n.e.c. (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). Industry 3259 shipments of structural clay products, n.e.c., represented 94 percent of the structural clay products, n.e.c., valued at \$132 million, shipped by all manufacturing industries. Due to the change in the content of this industry as a result of the 1957 S.I.C. revisions, no comparable specialization or coverage ratios are available 1954.



## CEMENT, HYDRAULIC: SIC 324

Value Added by Manufacture by State: 1958

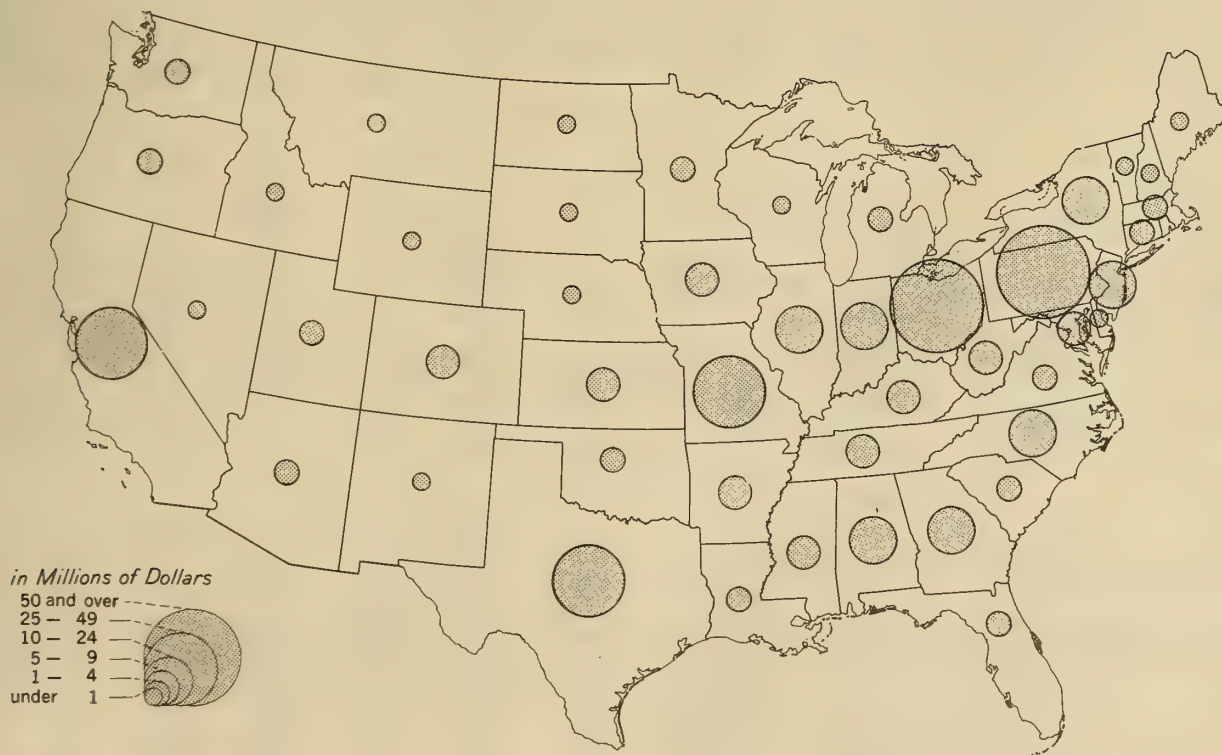


Includes Only Industry 3241. See Table 2.

Bureau of the Census M-58-D324

## STRUCTURAL CLAY PRODUCTS: SIC 325

Value Added by Manufacture by State: 1958



Includes Industries 3251, 3253, 3255 and 3259. See Table 2.

Bureau of the Census M-58-D325

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new	Specialization ratio <sup>4</sup> (percent)	Coverage <sup>5</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3241 (old SIC 3241)	Cement, hydraulic:														
	1958 <sup>6</sup> .....	62	175	170	41,127	214,221	34,780	69,481	170,156	724,771	354,391	1,073,494	100,677	99	100
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	41,562	203,610	35,868	70,188	161,214	648,439	344,065	968,490	218,188	99	100
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	41,429	195,292	35,809	73,648	157,554	672,436	337,028	997,007	239,888	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	40,774	179,103	35,122	73,406	144,775	597,997	305,874	900,086	139,493	(NA)	(NA)
	1954 <sup>6</sup> .....	67	162	160	39,769	167,659	34,036	70,839	134,777	525,667	285,388	814,923	73,015	99	100
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	37,785	156,164	31,802	67,514	123,199	464,463	284,155	748,618	68,866	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	39,429	152,178	33,418	70,507	119,685	445,834	273,060	718,894	44,815	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	39,746	141,991	33,706	70,471	111,764	427,251	265,023	692,274	41,769	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	38,205	127,426	32,675	68,677	100,202	391,216	225,362	616,550	50,804	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	35,613	113,823	30,327	64,041	90,838	302,591	211,974	514,565	44,948	(NA)	(NA)
	1947.....	73	155	(NA)	35,662	98,626	30,639	66,341	79,861	247,936	160,992	408,928	42,488	100	100
	1939.....	(NA)	160	(NA)	28,197	42,583	23,801	(NA)	31,588	124,081	68,530	192,611	(NA)	(NA)	(NA)
	1937.....	(NA)	158	(NA)	29,130	40,741	26,426	(NA)	34,070	113,222	69,979	183,201	(NA)	(NA)	(NA)
	1935.....	(NA)	153	(NA)	23,311	27,486	20,698	(NA)	20,904	77,328	43,089	120,417	(NA)	(NA)	(NA)
	1933.....	(NA)	148	(NA)	(NA)	(NA)	15,829	(NA)	13,870	59,989	26,932	86,921	(NA)	(NA)	(NA)
	1931.....	(NA)	164	(NA)	(NA)	(NA)	24,317	(NA)	29,884	92,747	56,098	148,845	(NA)	(NA)	(NA)
	1929.....	(NA)	174	(NA)	38,752	62,834	33,368	(NA)	48,849	172,267	95,242	267,509	(NA)	(NA)	(NA)
	1927.....	(NA)	161	(NA)	42,878	69,442	36,322	(NA)	53,111	173,553	120,012	293,565	(NA)	(NA)	(NA)
	1925.....	(NA)	125	(NA)	45,033	68,658	38,437	(NA)	53,912	186,726	114,169	300,895	(NA)	(NA)	(NA)
	1923.....	(NA)	133	(NA)	40,537	60,940	35,091	(NA)	49,708	163,331	100,767	264,098	(NA)	(NA)	(NA)
	1921.....	(NA)	125	(NA)	30,891	44,958	26,231	(NA)	34,416	101,267	102,360	203,627	(NA)	(NA)	(NA)
	1919.....	(NA)	123	(NA)	30,238	42,691	25,524	(NA)	33,195	95,755	79,510	175,265	(NA)	(NA)	(NA)
	1914.....	(NA)	133	(NA)	31,948	24,258	27,916	(NA)	18,192	49,769	51,987	101,756	(NA)	(NA)	(NA)
	1909.....	(NA)	135	(NA)	29,494	18,973	26,775	(NA)	15,320	33,861	29,344	63,205	(NA)	(NA)	(NA)
	1904.....	(NA)	129	(NA)	18,861	10,672	17,478	(NA)	8,814	17,658	12,215	29,873	(NA)	(NA)	(NA)
3251 (old SIC 3251)	Brick and structural tile:														
	1958.....	468	569	430	31,087	122,868	26,955	55,316	97,196	196,890	89,410	286,709	14,023	96	98
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	31,587	121,452	28,008	56,213	97,856	184,668	75,604	253,837	(S)	95	97
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	35,288	135,521	31,670	65,741	110,014	214,868	81,930	284,482	(S)	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	33,757	125,327	30,149	65,661	104,058	210,509	77,088	289,133	(NA)	(NA)	(NA)
	1954.....	510	610	459	32,426	114,740	28,751	61,048	93,114	184,017	77,404	262,590	16,233	96	98
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	30,269	105,155	26,855	56,996	83,478	161,764	58,444	220,208	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	33,636	108,484	30,536	64,070	88,471	154,278	55,863	210,740	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	35,506	112,520	32,623	69,547	93,718	156,035	68,773	225,407	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	34,729	100,585	31,380	65,525	81,281	164,224	56,616	220,794	(NA)	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	32,182	84,614	27,939	58,487	68,598	118,032	49,497	167,670	(NA)	(NA)	(NA)
	1947.....	574	674	(NA)	29,617	69,399	27,002	58,367	59,876	110,867	37,640	144,497	13,266	95	97
	1939.....	(NA)	800	(NA)	32,962	33,877	29,069	(NA)	26,349	55,684	22,469	78,153	(NA)	(NA)	(NA)
	1937 <sup>7</sup> .....	(NA)	781	(NA)	(NA)	(NA)	27,742	(NA)	24,685	45,887	20,014	65,901	(NA)	(NA)	(NA)
3253 (old SIC 3253)	Ceramic wall and floor tile:														
	1958.....	79	90	62	13,068	53,738	10,889	21,768	41,494	92,779	44,095	135,470	3,276	94	99
	1958 (old SIC) <sup>8</sup> .....	(NA)	86	58	12,482	51,350	10,387	20,747	39,693	88,442	43,178	130,300	3,091	93	99
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	11,409	47,879	9,437	18,661	36,234	81,653	32,823	112,929	8,839	91	99
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	13,129	54,020	11,248	22,570	42,357	95,761	37,618	126,518	7,743	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	12,325	48,452	10,445	21,134	37,781	90,841	33,708	124,449	5,493	(NA)	(NA)
	1954.....	41	49	40	11,265	43,488	9,627	19,706	33,718	71,501	26,727	100,025	4,579	91	99
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	10,411	38,719	8,707	18,123	29,755	60,400	23,357	83,757	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	9,089	31,257	8,032	16,919	24,926	45,719	20,657	66,429	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	9,462	31,691	8,507	18,159	25,341	52,881	21,957	74,891	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	9,008	26,301	8,120	17,121	21,640	46,673	18,837	65,563	(NA)	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	6,712	19,445	5,949	13,025	15,874	32,581	13,358	45,992	(NA)	(NA)	(NA)
	1947.....	34	37	31	6,828	16,335	6,250	13,088	13,774	31,238	10,684	40,966	2,277	97	95
	1939.....	(NA)	49	(NA)	6,434	7,523	5,681	(NA)	5,931	12,517	5,142	17,659	(NA)	(NA)	(NA)
	1937 <sup>7</sup> .....	(NA)	37	(NA)	(NA)	(NA)	6,288	(NA)	6,531	11,762	5,324	17,086	(NA)	(NA)	(NA)
3255 (old SIC 3255)	Clay refractories:														
	1958.....	104	167	117	12,394	59,816	10,110	18,581	44,920	104,898	56,624	163,478	8,094	93	92
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,232	84,675	14,783	27,788	64,891	147,798	94,941	237,493	(S)	88	94
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,810	80,913	15,436	29,199	62,916	147,147	90,125	232,780	15,306	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	16,612	70,064	14,397	27,845	54,722	128,749	73,136	198,345	8,934	(NA)	(NA)
	1954.....	113	177	133	14,463	55,604	12,204	22,783	43,006	88,483	49,956	139,290	5,702	92	95
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	15,644	58,502	13,638	27,001	48,595	94,904	52,410	147,314	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,534	62,239	15,412	30,709	51,553	106,755	53,620	160,290	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	18,018	62,877	15,852	32,976	52,356	114,362	54,308	168,585	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	16,035	47,634	13,989	27,297	39,156	87,448	39,568	126,825	(NA)	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	16,019	44,671	14,062	25,806	36,393	69,865	36,467	106,141	(NA)	(NA)	(NA)
	1947.....	108	168	(NA)	17,963	47,048	15,937	31,830	38,663	75,982	35,259	109,260	(NA)	93	94
	1939.....	(NA)	165	(NA)	13,655	15,404	12,211	(NA)	12,324	28,978	13,213	42,191	(NA)	(NA)	(NA)
	1937 <sup>7</sup> .....	(NA)	163	(NA)	(NA)	(NA)	15,449	(NA)	16,409	34,827	17,823	52,650	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>2</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expend- itures, new	Spec- ial- iza- tion ratio <sup>4</sup>	Cov- er- age ratio <sup>5</sup>
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3259	Structural clay products, nec. <sup>9</sup>														
	1958 (New SIC)....	152	192	117	13,756	56,454	11,795	22,185	44,582	95,881	38,190	134,928	6,759	97	94
	1958 (Old SIC)....	(NA)	195	120	14,112	57,800	12,096	22,791	45,508	98,526	38,611	137,810	6,565	(NA)	(NA)
	1954.....	(NA)	217	129	14,659	53,333	12,982	26,225	44,000	83,648	27,645	110,330	5,046	89	84
	1948 <sup>6</sup> .....	(NA)	(NA)	(NA)	14,375	42,039	12,774	24,818	34,986	72,697	20,045	92,969	(NA)	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	14,874	41,487	13,408	26,638	34,870	59,082	21,931	80,972	(NA)	(NA)	(NA)
	1947.....	(NA)	230	127	14,850	36,371	21,114	27,945	31,706	62,233	18,459	76,668	(NA)	83	83
	1939 <sup>10</sup> .....	(NA)	192	(NA)	10,942	19,779	15,589	(NA)	15,732	20,941	6,805	51,641	(NA)	(NA)	(NA)
	1937 <sup>7</sup> .....	(NA)	201	(NA)	(NA)	(NA)	10,105	(NA)	10,220	19,810	7,815	27,625	(NA)	(NA)	(NA)
	Total for clay prod- ucts (other than pottery) and nonclay refractories: <sup>11</sup>														
	1937.....	(NA)	1,238	(NA)	70,460	75,330	65,226	(NA)	64,175	128,206	63,513	191,719	(NA)	(NA)	(NA)
	1935.....	(NA)	1,074	(NA)	49,296	44,000	44,583	(NA)	34,603	73,114	38,083	111,197	(NA)	(NA)	(NA)
	1933.....	(NA)	928	(NA)	34,962	23,535	31,944	(NA)	18,967	44,609	19,994	64,603	(NA)	(NA)	(NA)
	1931.....	(NA)	1,264	(NA)	(NA)	(NA)	51,128	(NA)	44,368	90,367	36,969	127,336	(NA)	(NA)	(NA)
	1929.....	(NA)	1,760	(NA)	101,938	128,989	93,657	(NA)	107,348	215,145	82,734	297,879	(NA)	(NA)	(NA)
	1927.....	(NA)	1,857	(NA)	109,743	144,550	101,230	(NA)	122,311	221,248	100,642	321,890	(NA)	(NA)	(NA)
	1925.....	(NA)	1,950	(NA)	111,662	148,914	103,061	(NA)	127,508	235,054	100,768	335,822	(NA)	(NA)	(NA)
	1923.....	(NA)	1,996	(NA)	112,504	146,346	103,239	(NA)	124,400	232,340	104,544	336,884	(NA)	(NA)	(NA)
	1921.....	(NA)	1,898	(NA)	76,247	90,915	69,171	(NA)	74,222	127,196	69,103	196,299	(NA)	(NA)	(NA)
	1919.....	(NA)	2,436	(NA)	85,887	95,545	77,763	(NA)	79,179	143,996	69,721	213,717	(NA)	(NA)	(NA)
	1914.....	(NA)	3,249	(NA)	108,407	65,769	100,484	(NA)	55,079	93,815	43,993	137,808	(NA)	(NA)	(NA)

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, value added by manufacture represents adjusted value added and for earlier years, unadjusted value added. For 1958 and 1954, cost of materials includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of such resales. Figures for years prior to 1935 do not include cost of contract work. For 1958 and 1954, value of shipments includes shipments of products bought for resale; for other years, excludes value of such resales. For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. For a description of these statistics, see Introduction, "Value Added by Manufacture," "Cost of Materials Consumed," and "Value of Shipments." Unadjusted value added for 1954, cost of materials excluding cost of resales, and value of shipments excluding values of resales, for 1954 and 1958, are shown below:

Industry Code	Value Added (\$1,000)	Industry Code	Cost of Materials, etc. (\$1,000)	Industry Code	Value of Shipments (\$1,000)
			1958		1954
3241	528,920	3241	350,907	3241	1,068,957
3251	183,312	3251	79,924	3251	275,501
3253	70,606	3253	40,173	3253	130,749
3255	88,753	3255	51,583	3255	157,459
3259	82,684	3259	33,262	3259	128,865

<sup>4</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>5</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.<sup>6</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>7</sup>"Brick and Structural Tile," "Ceramic Wall and Floor Tile," "Sewer Pipe," "Clay Refractories" and "Structural Clay Products, NEC" together with "Nonclay Refractories," formerly constituted a single industry classification, "Clay Products (other than pottery) and Nonclay Refractories," figures for which are shown in this table for the period 1914-1937.<sup>8</sup>Retabulated to provide 1958 data on a basis comparable to that shown for 1957 and earlier years.<sup>9</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: Industry 3254, Sewer Pipe and Industry 3259, Structural Clay Products, NEC. The data for 1957 and earlier years for these two industries have been combined.<sup>10</sup>Includes "Terra-Cotta" and "Roofing Tile," for which separate statistics were tabulated in 1939 only.<sup>11</sup>Data for establishments engaged primarily in manufacture of nonclay refractories are included in the figures for all years. For 1937, the statistics included for these establishments are as follows: Number of Establishments, 40; All Employees, Number 5,990 and Wages and Salaries, \$7,217,795; Production and Related Workers, Number (average for the year), 5,641 and Wages \$6,330,518; Value Added by Manufacture, \$15,919,199; Cost of Materials, etc., \$12,538,034; and Value of Products, \$28,457,233.



## MANUFACTURES-INDUSTRY STATISTICS

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3259, Structural clay products, nec.....	192	117	13,756	95,881	xxx	xxx	xxx	xxx
Old Industry 3254, Sewer pipe.....	70	68	10,199	70,101	70	68	10,199	70,101
Old Industry 3259, Structural clay products, nec.....	<sup>1</sup> 122	49	3,557	25,780	126	53	4,143	30,117

<sup>1</sup>Excludes four establishments which because of a change in their product classification, moved out of Industry 3259, Ceramic Wall and Floor Tile, under the new SIC.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3241	Cement, hydraulic, total.....	175	170	41,127	214,221	34,780	69,481	170,156	724,771	1,073,494	100,677	39,769	528,920	35,662
	Northeast.....	40	39	9,214	48,115	7,913	15,640	38,737	141,241	211,271	19,350	9,315	110,174	8,967
	Pennsylvania...	26	26	6,455	33,923	5,501	10,773	27,041	101,644	149,769	12,284	6,641	80,729	6,610
	East North Central.....	30	29	9,063	46,771	7,618	15,087	37,824	152,958	224,329	18,469	8,230	106,706	7,387
	Ohio.....	11	10	2,362	13,012	2,003	4,117	10,520	36,817	54,539	6,097	2,173	24,259	1,842
	Indiana.....	5	5	2,514	13,033	2,167	4,172	10,543	37,473	58,273	4,569	2,238	28,895	2,223
	Michigan.....	8	8	2,620	12,731	2,021	3,927	9,636	49,056	69,935	5,885	2,336	32,349	1,884
	West North Central.....	20	20	4,996	25,090	4,352	8,543	20,579	99,197	138,479	14,744	5,430	70,970	5,211
	Iowa.....	5	5	1,423	7,113	1,291	2,604	6,202	29,561	43,074	5,675	1,519	19,860	1,369
	Missouri.....	5	5	1,504	7,464	1,293	2,449	6,025	30,293	41,518	4,423	1,716	21,066	1,647
	Kansas.....	7	7	1,307	6,555	1,104	2,203	5,108	24,489	31,638	2,617	1,425	19,401	1,361
	South Atlantic.....	16	16	3,198	14,823	2,840	5,465	12,558	55,012	86,064	10,830	2,923	38,109	2,073
	Maryland.....	3	3	498	2,490	459	886	2,194	10,325	14,216	(D)	(NA)	(NA)	(NA)
	East South Central.....	17	17	3,144	15,911	2,623	5,225	12,050	56,277	86,033	8,540	3,228	44,747	3,240
	Alabama.....	9	9	1,607	8,136	1,317	2,652	6,103	30,619	47,477	5,187	1,645	23,374	1,744
	West South Central.....	20	19	4,189	21,264	3,460	7,307	15,990	88,539	119,761	15,004	4,026	64,262	3,242
	Texas.....	14	13	2,689	13,890	2,196	4,609	10,187	62,100	81,983	5,521	2,602	44,966	2,167
	Mountain.....	8	8	1,527	7,970	1,276	2,492	6,430	32,827	45,838	932	1,400	23,176	1,019
	Pacific.....	24	22	5,796	34,277	4,698	9,722	25,988	98,720	161,719	12,808	5,215	70,773	4,523
	California.....	14	13	4,742	28,152	3,817	7,935	21,019	86,574	136,150	12,263	3,993	58,355	3,455
3251	Brick and Structural tile, total.....	569	430	31,087	122,868	26,955	55,316	97,196	196,890	286,709	14,023	32,426	183,312	29,617
	New England.....	28	14	730	3,075	606	1,291	2,415	4,179	6,576	(2)	883	4,292	906
	Connecticut.....	9	5	354	1,620	287	594	1,228	2,222	3,595	(2)	(NA)	(NA)	(NA)
	Middle Atlantic.....	74	65	4,600	21,559	4,017	8,138	17,743	33,798	46,674	1,740	5,065	31,745	4,939
	Pennsylvania.....	47	41	2,815	13,197	2,467	4,906	10,872	21,595	29,580	1,116	2,917	19,651	2,801
	East North Central.....	117	96	7,666	34,928	6,643	13,165	28,472	53,907	77,250	3,117	8,282	55,067	7,448
	Ohio.....	57	50	4,066	19,169	3,580	7,097	15,922	31,326	44,399	2,315	4,312	29,951	3,407
	Indiana.....	24	22	1,651	6,778	1,380	2,721	5,270	9,281	13,869	(2)	1,630	9,028	1,460
	Illinois.....	25	22	1,669	7,898	1,444	2,959	6,339	12,291	17,371	(2)	2,003	14,086	2,072
	West North Central.....	44	35	1,634	6,442	1,344	2,854	4,722	11,216	16,560	981	1,912	10,767	2,118
	Iowa.....	15	13	644	2,378	504	1,011	1,639	4,646	6,871	(2)	730	3,875	856
	Nebraska.....	4	3	123	443	104	218	320	584	943	(2)	178	1,018	150
	Kansas.....	10	9	400	1,585	356	779	1,291	2,652	3,570	(2)	361	2,234	384
	South Atlantic.....	91	72	5,775	19,368	4,903	10,390	13,954	32,450	50,505	2,055	6,187	30,293	5,771
	Maryland.....	11	8	525	2,135	445	913	1,562	3,963	6,023	(2)	624	3,561	612
	Virginia.....	13	11	740	2,525	625	1,341	1,974	4,360	(D)	(2)	(NA)	(NA)	(NA)
	West Virginia.....	6	5	306	1,280	252	449	963	1,596	2,547	(2)	432	2,047	519
	North Carolina.....	33	26	1,721	6,062	1,425	3,150	4,011	10,950	17,067	673	(NA)	(NA)	(NA)
	Georgia.....	9	8	1,487	4,479	1,280	2,639	3,178	6,923	9,598	512	1,505	6,615	1,156
	East South Central.....	58	40	3,055	9,444	2,826	5,305	8,089	17,362	24,435	1,500	2,786	12,359	2,820
	Kentucky.....	12	7	360	996	328	599	838	1,682	2,636	770	(NA)	(NA)	(NA)
	Tennessee.....	11	6	810	2,296	751	1,272	2,065	4,931	5,992	(2)	765	2,876	881
	Alabama.....	19	14	1,202	4,114	1,126	2,184	3,569	6,868	10,445	(2)	1,120	5,648	1,074
	Mississippi.....	16	13	683	2,038	621	1,250	1,617	3,881	5,362	(2)	(NA)	(NA)	(NA)

See footnotes at end of table.



## CEMENT AND STRUCTURAL CLAY PRODUCTS

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Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947		
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number	
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
3253	Brick and Structural tile—Con. West South														
	Central.....	74	61	4,570	14,198	4,085	8,877	11,395	23,230	32,595	2,026	4,005	17,878	3,295	
	Arkansas.....	8	7	683	2,472	618	1,519	2,042	4,157	5,596	(2)	(NA)	(NA)	(NA)	
	Louisiana.....	10	7	446	1,316	410	840	1,068	1,943	2,789	(2)	451	1,663	306	
	Oklahoma.....	12	10	517	1,612	450	952	1,258	3,053	4,383	(2)	443	2,758	413	
	Texas.....	44	37	2,924	8,798	2,607	5,566	7,027	14,077	19,827	1,489	(NA)	(NA)	(NA)	
	Mountain.....	36	20	1,672	7,374	1,381	3,116	5,630	11,243	17,486	737	1,492	8,884	909	
	Colorado.....	12	6	812	3,708	661	1,353	2,678	6,142	9,498	(2)	779	5,268	308	
	Utah.....	7	4	397	1,803	345	831	1,515	2,591	4,061	(2)	312	1,850	202	
	Pacific.....	47	27	1,385	6,480	1,150	2,180	4,776	9,505	14,828	1,450	1,811	12,023	1,411	
	Ceramic wall and floor tile, total.	90	62	13,068	53,738	10,889	21,768	41,494	92,779	135,470	3,276	(3)	(3)	(3)	
	Northeast.....	20	12	2,799	12,908	2,350	4,795	9,755	22,916	33,069	1,398	(3)	(3)	(3)	
	New Jersey.....	5	4	728	3,117	632	1,181	2,591	4,731	7,716	(2)	(3)	(3)	(3)	
	North Central.....	21	13	4,655	19,466	3,632	7,266	14,135	27,554	40,121	539	(3)	(3)	(3)	
	Ohio.....	12	10	3,998	16,849	3,077	6,231	12,239	23,874	34,149	(2)	(3)	(3)	(3)	
	South.....	25	22	3,204	11,045	2,792	5,632	8,677	21,197	32,265	835	(3)	(3)	(3)	
	Florida.....	5	3	370	1,317	324	619	1,041	2,686	4,161	(2)	(3)	(3)	(3)	
	Texas.....	11	10	1,204	3,759	1,040	2,098	2,747	7,727	12,668	(2)	(3)	(3)	(3)	
	Mountain.....	4	3	110	398	96	195	310	635	928	(2)	(3)	(3)	(3)	
Pacific.....	20	12	2,300	9,921	2,019	3,880	8,617	20,477	29,087	(2)	(3)	(3)	(3)		
California.....	20	12	2,300	9,921	2,019	3,880	8,617	20,477	29,087	(2)	(3)	(3)	(3)		
3255	Clay refractories, total.....	167	117	12,394	59,816	10,110	18,581	44,920	104,898	163,478	8,094	14,463	88,753	17,963	
	Northeast.....	58	40	3,493	16,886	2,954	5,154	13,174	26,695	42,634	1,904	4,199	25,089	5,592	
	Pennsylvania...	48	36	3,297	15,921	2,799	4,830	12,474	24,603	39,829	1,876	3,814	22,637	5,113	
	North Central....	65	49	5,811	29,199	4,535	8,576	20,854	53,189	79,415	4,558	(NA)	(NA)	(NA)	
	Ohio.....	38	29	2,033	8,804	1,682	2,971	6,984	14,697	21,689	1,189	2,592	14,063	2,723	
	Illinois.....	8	6	492	2,880	350	655	1,568	4,598	8,918	(2)	524	3,132	531	
	Missouri.....	13	11	3,187	17,106	2,422	4,795	11,982	32,891	48,996	3,118	3,844	25,756	4,530	
	South Atlantic...	13	8	1,262	5,845	1,050	1,990	4,470	9,281	16,065	(2)	(NA)	(NA)	(NA)	
	East South Central.....	8	8	935	4,143	853	1,457	3,617	7,119	10,756	(2)	(NA)	(NA)	(NA)	
	Kentucky.....	5	5	625	2,679	571	917	2,352	4,614	7,119	(2)	771	4,319	1,368	
	Alabama.....	3	3	310	1,464	282	540	1,265	2,505	3,637	(2)	(NA)	(NA)	(NA)	
	West South Central.....	7	4	238	864	207	435	710	1,606	3,531	(2)	(NA)	(NA)	(NA)	
	West.....	16	8	655	2,879	511	969	2,095	7,008	11,077	(2)	(NA)	(NA)	(NA)	
	3259	Structural clay products, nec.) total.....	192	117	13,756	56,454	11,795	22,185	44,582	95,881	134,928	6,759	(3)	(3)	(3)
		Northeast.....	17	12	1,308	5,335	1,186	2,159	4,617	8,837	11,407	523	(3)	(3)	(3)
		East North Central.....	94	63	6,834	28,973	5,998	11,109	23,476	44,058	64,138	2,843	(3)	(3)	(3)
		Ohio.....	59	38	4,812	20,071	4,269	7,597	16,624	29,479	42,427	1,902	(3)	(3)	(3)
		Michigan.....	5	5	305	1,681	266	576	1,258	3,224	4,416	(2)	(3)	(3)	(3)
		West North Central.....	14	8	994	4,370	848	1,769	3,401	7,584	10,792	563	(3)	(3)	(3)
South.....		31	19	2,846	9,479	2,307	4,526	6,617	16,916	23,730	1,658	(3)	(3)	(3)	
West.....		36	15	1,774	8,297	1,456	2,622	6,471	18,486	24,861	1,172	(3)	(3)	(3)	
California.....		22	13	1,565	7,505	1,297	2,329	5,878	17,269	23,256	1,062	(3)	(3)	(3)	

Note: Detailed figures may not add to the totals because of independent rounding.

NA Not available. <sup>r</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3241, Cement, Hydraulic: Northeast—Maine, 1 (100-249); New York, 12 (2,500-4,999); New Jersey, 1 (1-19); East North Central—Illinois, 4 (1,000-249); Wisconsin, 2 (250-499); West North Central—Minnesota, 1 (250-499); Nebraska, 2 (250-499); South Atlantic—Maryland, 3 (250-499); Virginia, 4 (500-999); West Virginia, 2 (250-499); South Carolina, 1 (100-249); Georgia, 2 (250-499); Florida, 4 (500-999); East South Central—Kentucky, 1 (250-499); Tennessee, 6 (1,000-2,499); Mississippi, 1 (100-249); West South Central—Arkansas, 1 (100-249); Louisiana, 3 (500-999); Oklahoma, 2 (500-999); Mountain—Montana, 1 (100-249); Idaho, 1 (20-99); Wyoming, 1 (250-499); Colorado, 2 (500-999); Arizona, 1 (100-249); Utah, 2 (250-499); Pacific—Washington, 7 (500-999); Oregon, 3 (250-499).

SIC 3251, Brick and Structural Tile: New England—Maine, 9 (20-99); New Hampshire, 4 (20-99); Vermont, 1 (20-99); Massachusetts, 5 (100-249); Connecticut, 9 (250-499); Middle Atlantic—New York, 18 (1,301); New Jersey, 9 (250-499); East North Central—Michigan, 2 (100-249); Wisconsin, 9 (20-99); West North Central—Minnesota, 6 (100-249); Missouri, 1 (100-249); North Dakota, 1 (20-99); South Dakota, 1 (20-99); South Atlantic—Delaware, 2 (20-99); District of Columbia, 1 (20-99); South Carolina, 14 (500-999); Florida, 2 (1-19); Mountain—Montana, 2 (20-99); Idaho, 3 (20-99); Wyoming, 1 (1-19); New Mexico, 2 (100-249); Arizona, 7 (100-249); Nevada, 2 (20-99); Pacific—Washington, 11 (250-499); Oregon, 8 (100-249); California, 28 (500-999).

SIC 3253, Ceramic Wall and Floor Tile: Northeast—Massachusetts, 1 (250-499); New York, 6 (250-499); New Jersey, 5 (500-999); Pennsylvania, 8 (1,343); North Central—Indiana, 2 (250-499); Illinois, 1 (1-19); Michigan, 2 (20-99); Minnesota, 2 (1-19); Missouri, 1 (1-19); Kansas, 1 (100-249); South—West Virginia, 2 (250-499); North Carolina, 1 (20-99); Florida, 5 (250-499); Kentucky, 1 (100-249); Tennessee, 1 (100-249); Alabama, 1 (250-499); Mississippi, 2 (100-249); Arkansas, 1 (100-249); West Mountain—Colorado, 2 (20-99); New Mexico, 1 (20-99); Utah, 1 (1-19).

SIC 3255, Clay Refractories: Northeast—Massachusetts, 1 (20-99); New York, 2 (1-19); New Jersey, 7 (100-249); North Central—Indiana, 1 (20-49); Michigan, 4 (20-99); Iowa, 1 (20-99); South Atlantic—Maryland, 5 (100-249); West Virginia, 1 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 3 (500-999); East South Central—Alabama, 3 (250-499); West South Central—Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 5 (100-249); West—Montana, 2 (20-99); Idaho, 1 (1-19); Colorado, 3 (250-499); Utah, 1 (1-19); Washington, 1 (20-99); California, 8 (100-249).

SIC 3259, Structural Clay Products, NEC: Northeast—Maine, 2 (1-19); Middle Atlantic—New York, 1 (1-19); New Jersey, 2 (100-249); Pennsylvania, 12 (1,066); East North Central—Indiana, 15 (1,071); Illinois, 11 (500-999); Wisconsin, 4 (1-19); West North Central—Minnesota, 1 (20-99); Iowa, 10 (500-999); Missouri, 1 (100-249); Kansas, 2 (250-499); South Atlantic—Maryland, 2 (20-99); District of Columbia, 1 (20-99); Virginia, 3 (20-99); West Virginia, 1 (1-19); North Carolina, 3 (500-999); South Carolina, 1 (100-249); Georgia, 2 (500-999); Florida, 4 (20-99); Kentucky, 2 (250-499); Tennessee, 1 (100-249); Alabama, 3 (250-499); Mississippi, 1 (100-249); West South Central—Texas, 7 (500-999); West Mountain—Idaho, 1 (1-19); Wyoming, 1 (20-99); Colorado, 3 (100-249); Arizona, 2 (1-19); Pacific—Oregon, 7 (20-99).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Cement, hydraulic (SIC 3241)	Brick and structural tile (SIC 3251)	Ceramic wall and floor tile (SIC 3253)	Clay refractories (SIC 3255)	Structural clay products, nec (SIC 3259)
Primary product specialization ratio <sup>1</sup> .....	99	96	94	93	97
Coverage ratio <sup>2</sup> .....	100	98	99	92	94
Number of establishments, total.....	175	569	90	167	192
With 1-19 employees.....	5	139	28	50	75
With 20-99 employees.....	20	357	27	79	61
With 100 employees or more.....	150	73	35	38	56
Proprietors and working partners.....Number..	1	155	27	23	79
All employees:					
Number (average for the year).....	41,127	31,087	13,068	12,394	13,756
Payroll.....\$1,000..	214,221	122,868	53,738	59,816	56,454
Production workers:					
Number (average for the year).....	34,780	26,955	10,889	10,110	11,795
March.....	33,766	24,042	10,661	10,218	10,624
May.....	35,054	27,471	10,671	9,396	11,510
August.....	35,407	28,997	11,040	9,873	12,745
November.....	34,880	27,519	11,218	10,616	12,322
Man-hours.....1,000..	69,481	55,316	21,768	18,581	22,185
January-March.....do....	16,284	11,491	5,398	4,681	4,686
April-June.....do....	17,636	14,220	5,342	4,357	5,522
July-September.....do....	17,924	15,019	5,318	4,503	6,042
October-December.....do....	17,637	14,386	5,710	5,040	5,935
Wages.....\$1,000..	170,156	97,196	41,494	44,920	44,582
Cost of materials, etc., total.....do....	354,391	89,410	44,095	56,624	38,190
Materials, parts, containers, and supplies consumed.....do....	187,788	39,913	35,521	39,519	18,291
Cost of resales.....do....	3,484	9,486	3,922	5,041	4,928
Fuels consumed.....do....	116,778	31,116	3,261	9,514	12,053
Electricity purchased.....do....	44,691	7,125	1,240	2,411	1,994
Contract work.....do....	1,650	1,770	151	139	924
Value of shipments (including resales), total.....do....	1,073,494	286,709	135,470	163,478	134,928
Value of resales.....do....	4,537	11,208	4,721	6,019	6,063
Value added by manufacture, adjusted.....do....	724,771	196,890	92,779	104,898	95,881
Manufacturers' inventories:					
Beginning of year, total.....do....	165,476	<sup>r</sup> 41,921	22,805	49,753	20,520
Finished products.....do....	53,419	31,569	14,158	26,458	15,393
Work-in-process.....do....	21,352	4,351	3,060	3,183	2,454
Materials, supplies, fuel, etc.....do....	90,705	6,001	5,587	20,112	2,673
End of year, total.....do....	166,615	42,794	24,102	46,350	19,755
Finished products.....do....	57,414	31,678	15,395	24,571	14,403
Work-in-process.....do....	22,943	3,833	3,227	3,105	2,536
Materials, supplies, fuel, etc.....do....	86,258	7,283	5,480	18,674	2,816
Expenditures for plant and equipment, total.....do....	101,963	14,620	3,334	9,246	6,884
New, total.....do....	100,677	14,023	3,276	8,094	<sup>r</sup> 6,759
New structures and additions to plant.....do....	26,944	5,021	1,046	3,531	2,001
New machinery and equipment.....do....	73,733	9,002	2,230	4,563	4,758
Used plant and equipment.....do....	1,226	597	58	1,152	125

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>r</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



## CEMENT AND STRUCTURAL CLAY PRODUCTS

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Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3241	Cement, hydraulic:											
	Number of establishments.....	175	1	3	1	3	17	84	58	6	2	...
	All employees:											
	Number.....	41,127	40	(D)	(D)	101	1,352	15,328	17,983	6,323	(D)	...
	Payroll.....\$1,000..	214,221	244	(D)	(D)	597	6,926	79,967	93,191	33,296	(D)	...
	Value added, adjusted..do....	724,771	571	(D)	(D)	1,463	21,578	289,014	314,452	97,693	(D)	...
	Value of shipments.....do....	1,073,494	2,163	(D)	(D)	2,732	37,518	430,484	455,744	144,853	(D)	...
	Capital expend., new...do....	100,677	( <sup>1</sup> )	(D)	(D)	(D)	1,061	36,391	53,748	9,380	(D)	...
3251	Brick and structural tile:											
	Number of establishments.....	569	39	40	60	189	168	64	8	1	...	...
	All employees:											
	Number.....	31,087	78	273	891	6,590	11,506	8,786	2,963	(D)	...	...
	Payroll.....\$1,000..	122,868	206	826	3,308	25,419	44,192	36,987	11,930	(D)	...	...
	Value added, adjusted..do....	196,890	438	1,277	4,809	40,646	71,604	59,903	18,213	(D)	...	...
	Value of shipments.....do....	286,709	718	2,462	7,950	60,205	104,864	84,666	25,844	(D)	...	...
	Capital expend., new...do....	14,023	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3,376	5,217	3,456	1,246	(D)	...	...
3253	Ceramic wall and floor tile:											
	Number of establishments.....	90	18	4	6	12	15	19	11	4	1	...
	All employees:											
	Number.....	13,068	39	26	81	385	1,028	3,007	3,985	4,517	(D)	...
	Payroll.....\$1,000..	53,738	116	106	228	1,451	3,230	11,403	16,480	20,724	(D)	...
	Value added, adjusted..do....	92,779	112	267	534	2,647	5,460	21,236	27,138	35,385	(D)	...
	Value of shipments.....do....	135,470	376	354	636	3,780	9,537	31,368	40,447	48,972	(D)	...
	Capital expend., new...do....	3,276	...	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	715	755	1,406	(D)	...
3255	Clay refractories:											
	Number of establishments.....	167	19	12	19	39	40	31	5	2	...	...
	All employees:											
	Number.....	12,394	23	82	265	1,322	3,017	4,326	3,359	(D)	...	...
	Payroll.....\$1,000..	59,816	91	311	1,184	6,005	13,647	21,119	17,459	(D)	...	...
	Value added, adjusted..do....	104,898	187	617	2,157	11,167	22,847	36,649	31,274	(D)	...	...
	Value of shipments.....do....	163,478	316	1,449	3,770	20,395	34,048	54,436	49,064	(D)	...	...
	Capital expend., new...do....	8,094	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	779	1,418	3,536	2,042	(D)	...	...
3259	Structural clay products, nec.:											
	Number of establishments.....	192	28	22	25	29	32	49	7	...	...	...
	All employees:											
	Number.....	13,756	57	136	338	1,005	2,309	7,608	2,303	...	...	...
	Payroll.....\$1,000..	56,454	211	547	1,225	4,243	10,151	30,692	9,385	...	...	...
	Value added, adjusted..do....	95,881	419	1,056	2,006	6,678	17,365	46,744	21,613	...	...	...
	Value of shipments.....do....	134,928	649	1,804	3,036	8,917	23,663	67,678	29,181	...	...	...
	Capital expend., new...do....	6,759	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	754	4,208	1,042	...	...	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3241	Cement, hydraulic.....1958..	1,073,494	1,059,967	8,118	5,409	99	1,062,849	1,059,967	2,882	100
	.....1954..	819,923	806,577	4,138	4,208	99	807,338	806,577	761	100
3251	Brick and structural tile.....1958..	286,709	264,627	10,213	11,869	96	268,887	264,627	4,260	98
	.....1954..	262,590	238,106	11,077	13,407	96	242,918	238,106	4,812	98
3253	Ceramic wall and floor tile <sup>3</sup> ....1958..	135,470	122,723	7,928	4,819	94	124,196	122,723	1,473	99
3255	Clay refractories.....1958..	163,478	145,617	11,200	6,661	93	158,241	145,617	12,624	92
	.....1954..	139,290	125,681	10,247	3,362	92	132,027	125,681	6,346	95
3259	Structural clay products, nec <sup>3</sup> ..1958..	134,928	124,628	4,017	6,283	97	132,325	124,628	7,697	94

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>As a result of the new SIC, data for 1954 are not shown because they are not comparable with 1958.

<sup>4</sup>The 1955 Facts for Industry report on Refractories (M32C-05) revised 1954 shipments of clay Refractories to \$129,086,000.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Cement, hydraulic industry	Cement, hydraulic (SIC 3241)	Other industries	All industries
	Value of shipments.....	1,073,494	xxx	xxx
32410	Cement, hydraulic.....	1,059,967	<sup>1</sup> 2,882	1,062,849
	Secondary products.....	8,118	xxx	xxx
	Miscellaneous receipts.....	5,409	xxx	xxx
	Value of products bought and resold.....	4,537	xxx	xxx
	Other miscellaneous receipts.....	872	xxx	xxx
Prod. class code	Brick and structural clay tile industry	Brick and structural clay tile (SIC 3251)	Other industries	All industries
	Value of shipments.....	286,709	xxx	xxx
32511	Primary products.....	264,627	<sup>2</sup> 4,260	268,887
32512	Brick, except ceramic glazed and refractory.....	210,421	2,279	212,700
32510	Glazed brick and structural hollow tile.....	42,294	947	43,241
	Brick and structural clay tile, nsk.....	11,912	1,034	12,946
	Secondary products.....	10,213	xxx	xxx
32592	Structural clay products, nec.....	3,726	xxx	xxx
	Other secondary products.....	6,487	xxx	xxx
	Miscellaneous receipts.....	11,869	xxx	xxx
	Value of products bought and resold.....	11,208	xxx	xxx
	Other miscellaneous receipts.....	661	xxx	xxx
Prod. class code	Ceramic wall and floor tile industry	Ceramic floor and wall tile (SIC 3253)	Other industries	All industries
	Value of shipments.....	135,470	xxx	xxx
32530	Ceramic wall and floor tile.....	122,723	1,473	124,196
	Secondary products.....	<sup>3</sup> 7,928	xxx	xxx
	Miscellaneous receipts.....	4,819	xxx	xxx
	Value of products bought and resold.....	4,721	xxx	xxx
	Other miscellaneous receipts.....	98	xxx	xxx
Prod. class code	Clay refractories industry	Clay refractories (SIC 3255)	Other industries	All industries
	Value of shipments.....	163,478	xxx	xxx
32550	Clay refractories.....	145,617	<sup>4</sup> 12,624	158,241
	Secondary products.....	11,200	xxx	xxx
32970	Non clay refractories.....	4,281	xxx	xxx
	Other secondary products.....	6,919	xxx	xxx
	Miscellaneous receipts.....	6,661	xxx	xxx
	Value of products bought and resold.....	6,019	xxx	xxx
	Other miscellaneous receipts.....	642	xxx	xxx
Prod. class code	Structural clay products, nec, industry	Structural clay products, nec (SIC 3259)	Other industries	All industries
	Value of shipments.....	134,928	xxx	xxx
32591	Primary products.....	124,628	7,697	132,325
32592	Clay sewer pipe and fittings.....	83,867	3,045	86,912
	Other structural clay products, nec.....	40,761	<sup>5</sup> 4,652	45,314
	Secondary products.....	4,017	xxx	xxx
	Miscellaneous receipts.....	6,283	xxx	xxx
	Value of products bought and resold.....	6,063	xxx	xxx
	Other miscellaneous receipts.....	220	xxx	xxx

<sup>1</sup>Includes \$2,210,000 shipped by Industry 3273, Ready-mixed Concrete.

<sup>2</sup>Includes \$2,251,000 shipped by Industry 3259, Structural Clay Products, NEC, the exact amount of each product class withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes the following product class which totals \$2 million or more but is withheld to avoid disclosing individual company figures, 32630 - Earthenware (semivitreous) table and kitchen articles.

<sup>4</sup>An indeterminate amount in excess of \$2 million was shipped by Industry 3297, Nonclay Refractories.

<sup>5</sup>Includes \$3,726,000 shipped by Industry 3231, Brick and Structural Clay Tile.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3241---	Cement, hydraulic, total.....	.....	xxx	xxx	1,062,849	xxx	xxx	807,338
3241011	Portland cement.....	1,000 bbls. of						
3241031	Prepared or mixed hydraulic and masonry cements other than special portlands.....	376 lbs.....	303,992	304,704	979,084	xxx	264,162	724,285
3241051	Natural, masonry-natural, and puzzolan cements...	...do.....	14,279	14,785	53,270	xxx	<sup>1</sup> 12,557	42,668
9512031	Cost of containers for above cements and mortars.	...do.....	1,050	957	3,208	xxx	<sup>1</sup> 3,681	12,979
3241000	Cement, hydraulic, nsk.....	.....	xxx	xxx	24,236	xxx	xxx	27,406
			xxx	xxx	3,051	xxx	xxx	...
3251---	Brick and structural tile, total.....	.....	xxx	xxx	268,887	xxx	xxx	242,918
32511--	Brick (except ceramic glazed brick and refractory brick):.....	1,000 brick....	6,401,464	6,332,881	212,700	6,786,014	6,711,623	196,107
3251111	Building or common, and face (2-1/4" x 3-5/8" x 7-5/8" equivalent) <sup>2</sup> .....	...do.....	6,318,714	6,254,990	209,356	6,720,360	6,657,009	193,434
3251119	Other brick (paving, floor, and sewer) (2-1/4" x 3-5/8" x 7-5/8" equivalent).....	...do.....	82,750	77,891	3,344	65,654	54,614	2,673
32512	Glazed brick and structural hollow tile.....	...do.....	xxx	xxx	43,241	xxx	xxx	42,508
3251211	Structural clay tile, except facing (including load-bearing and nonload-bearing tile, silo tile, corncrib tile, structural floor tile, etc.) <sup>2</sup> .....	Short tons.....	570,973	548,336	8,998	981,452	907,808	12,725
	Facing tile (structural) and ceramic glazed brick:							
3251231	Ceramic glazed facing tile and ceramic glazed brick <sup>2</sup> .....	1,000 brick equiv.....	425,902	399,147	31,508	407,998	394,607	25,868
3251251	Unglazed and salt glazed facing tile 8" x 5" x 12" equivalent) <sup>2</sup> .....	1,000 tile.....	16,553	15,764	2,735	24,371	23,127	3,915
3251000	Brick and structural tile, nsk.....	.....	xxx	xxx	12,946	xxx	xxx	4,303
3253---	Clay floor and wall tile, total <sup>2</sup> .....	.....	xxx	xxx	124,196	xxx	xxx	92,758
3253011	Glazed floor and wall tile and accessories.....	1,000 sq. ft...	173,987	165,763	95,923	127,655	128,480	71,351
3253051	Unglazed floor and wall tile and accessories.....	...do.....	33,325	32,316	17,722	36,450	34,993	17,169
3253071	Quarry tile and promenade tile.....	...do.....	20,598	18,569	6,579	<sup>3</sup> 13,883	<sup>3</sup> 12,780	<sup>3</sup> 4,238
3253000	Clay floor and wall tile, nsk.....	.....	xxx	xxx	3,972	xxx	xxx	...
Total shipments including interplant transfers								
			1958			1954 <sup>4</sup>		
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)	
3255---	Clay refractories, total <sup>5</sup> .....	.....	xxx	<sup>5</sup> 158,241		xxx		129,086
3255011	Fireclay brick, standard and special shapes, except superduty.....	1,000 9" equiv.	320,034	56,526		394,694	51,205	
3255015	Superduty fireclay brick and shapes.....	...do.....	60,163	15,375		61,738	11,891	
3255021	High alumina brick and shapes (50% Al <sub>2</sub> O <sub>3</sub> and over) made substantially of calcined diaspore or bauxite <sup>6</sup> .....	...do.....	17,395	7,464		15,818	5,151	
3255025	Insulating fire brick and shapes.....	...do.....	38,600	9,386		37,090	7,647	
3255031	Ladle brick.....	...do.....	167,654	17,024		169,273	12,915	
3255041	Sleeves, nozzles, runner brick, and tuyeres.....	...do.....	34,930	7,448		43,427	6,993	
3255045	Glass-house pots, tank blocks, feeder parts, and upper structure shapes used only for glass tanks <sup>6</sup> .....	Short tons.....	14,534	3,598		15,922	2,716	
3255047	Hot top refractories.....	...do.....	6,689	3,975		8,626	4,537	
3255049	Clay kiln furniture, radiant heater elements, potters' supplies and other miscellaneous shaped refractory items.....	.....	xxx	4,808		xxx		
3255098	Other clay refractory materials sold in lump or ground form.....	Short tons.....	211,856	4,608		xxx		6,688
3255053	Refractory bonding mortars air-setting (wet and dry types) <sup>8</sup> .....	...do.....	73,571	6,864		86,519	8,123	
3255057	Refractory bonding mortars, except air-setting types <sup>8</sup> .....	...do.....	6,499	678				
3255061	Plastic refractories and ramming mixes <sup>8</sup> .....	...do.....	104,189	9,030		92,613	5,125	
3255065	Castable refractories (hydraulic setting).....	...do.....	91,812	9,077		70,511	6,095	
3255069	Insulating castable refractories (hydraulic setting).....	...do.....	19,746	2,380				

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3250---	Structural clay products, nec, total.....	.....	xxx	xxx	132,325	xxx	xxx	110,637
3259111	Vitrified clay sewer pipe and fittings.....	Short tons.....	1,734,006	1,723,503	86,912	1,763,057	1,702,867	970,878
32592--	Other structural clay products, nec.....	.....	xxx	xxx	45,413	xxx	xxx	39,759
3259211	Drain tile.....	Short tons.....	885,173	874,985	18,563	965,696	899,244	16,345
3259221	Terra cotta (architectural).....	.....do.....	13,504	12,489	4,126	14,527	14,016	4,494
3259241	Roofing tile.....	Sq. (100 sq.ft.)	62,391	62,217	2,031	125,126	124,165	3,368
3259251	Flue lining.....	Short tons.....	214,657	213,735	8,680	258,694	248,530	8,078
3259298	Other structural clay products (such as conduit, chimney pipe, tops, and thimbles, wall coping, adobe brick, etc.).....	.....	xxx	xxx	8,587	xxx	xxx	7,474
3259200	Other structural clay products, nec, nsk.....	.....	xxx	xxx	3,426	xxx	xxx	xxx

<sup>1</sup>Converted from thousand barrels of 280 pounds. In 1954, shipments of prepared or mixed hydraulic and masonry cements (other than special port-lands) totaled 16,862 thousand barrels of 280 pounds; total quantity of shipments of natural, masonry, and puzzolan cements was 4,943 thousand barrels of 280 pounds.

<sup>2</sup>Statistics on production and shipments of clay construction products, including brick and structural tile, were collected for 1958 on a monthly basis and published in the Facts for Industry Series M32D.

<sup>3</sup>Included in Industry 3259, Structural Clay Products, NEC, in 1954.

<sup>4</sup>Revised on the basis of the 1955 Facts for Industry report on Refractories (M32C-05).

<sup>5</sup>Excludes data for ground crude fire clay, high alumina clay, and silica fire clay. These products are included in Industry 3295, Minerals and Earths, ground or otherwise treated; representing \$4,646 thousand of product code 3295098.

<sup>6</sup>Excludes data for mullite or extra-high alumina refractories. These products are included with mullite and extra-high alumina brick and shapes in Industry 3297, Nonclay Refractories.

<sup>7</sup>Includes data for calcined clay, ground brick, and siliceous and other gunning mixes.

<sup>8</sup>Includes data for bonding mortars which contain up to 60 percent  $Al_2O_3$ , dry basis. Bonding mortars which contain more than 60 percent  $Al_2O_3$  dry basis are included in Industry 3297, Nonclay Refractories.

<sup>9</sup>Included in Industry 3254, Sewer Pipe, in 1954.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.--Brick (Building or Common and Face), Quantity Produced and Quantity and Value of Shipments, by Divisions and States: 1958

Division and State <sup>1</sup>	Production (1,000 brick)	Commercial shipments	
		Quantity (1,000 brick)	Value <sup>1</sup> (\$1,000)
United States, total.....	6,318,714	6,254,990	209,356
Northeast.....	1,245,359	1,202,399	42,284
New England.....	130,729	133,440	5,230
Massachusetts.....	30,548	29,495	1,132
Connecticut.....	77,271	78,304	3,057
Middle Atlantic.....	1,114,630	1,068,959	37,054
New York.....	369,829	337,069	10,877
New Jersey.....	184,558	179,186	4,392
Pennsylvania.....	560,243	552,704	21,785
North Central.....	1,593,916	1,560,848	56,833
East North Central.....	1,328,114	1,297,884	46,780
Ohio.....	658,984	650,542	24,626
Illinois.....	480,953	452,519	15,243
West North Central.....	265,802	262,964	10,053
Iowa.....	57,361	56,430	2,627
Missouri.....	50,043	52,177	1,905
Kansas.....	99,032	97,082	3,118
South.....	2,936,243	2,937,808	87,523
South Atlantic.....	1,436,737	1,459,589	43,662
Maryland.....	128,306	129,379	4,496
Virginia.....	200,093	198,737	7,333
North Carolina.....	553,534	556,024	15,628
South Carolina.....	189,161	198,712	5,578
Georgia.....	302,916	315,477	8,556
East South Central.....	674,228	664,882	18,969
Kentucky.....	72,612	70,510	1,952
Tennessee.....	172,404	160,206	5,675
Alabama.....	267,793	270,508	6,504
Mississippi.....	161,419	163,658	4,838
West South Central.....	825,278	813,337	24,892
Arkansas.....	122,578	127,106	4,532
Louisiana.....	70,658	66,986	1,844
Oklahoma.....	84,115	92,766	3,250
Texas.....	547,927	526,479	15,266
West.....	543,196	553,935	22,716
Mountain.....	240,300	253,441	10,573
Colorado.....	110,710	108,928	4,822
Arizona.....	36,796	47,580	1,230
Utah.....	69,252	70,155	3,381
Pacific.....	302,896	300,494	12,143
Washington.....	54,393	64,392	2,548
California.....	231,589	218,534	8,873

<sup>1</sup>Separate data are not shown for Maine, New Hampshire, Vermont, Rhode Island, Indiana, Michigan, Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Delaware, District of Columbia, West Virginia, Florida, Montana, Idaho, Wyoming, New Mexico, Nevada and Oregon (a) to avoid disclosing figures for individual companies, or (b) because the value of shipments of brick in these States was less than \$1 million.

TABLE 7 NOT APPLICABLE TO THIS REPORT



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3251	BRICK AND STRUCTURAL CLAY TILE (entire industry).....	569	31,087	122,868	26,955	55,316	97,196	196,890	89,410	286,709	14,023
	Establishments with:										
	90% or more specialization.....	525	28,530	111,908	24,811	50,494	88,758	177,909	80,892	259,667	13,195
	75-89% specialization.....	20	918	3,928	782	1,857	3,102	7,197	2,346	9,225	( <sup>1</sup> )
32511	Brick except ceramic glazed and refractory (primary product class of estab.).....	403	25,514	99,784	22,144	45,823	78,086	158,592	71,071	230,853	11,280
	Establishments with:										
	90% or more specialization....	334	20,441	80,797	17,730	36,229	63,349	127,829	57,994	187,168	9,613
	75-89% specialization.....	37	2,254	8,153	2,016	4,431	6,505	12,821	4,588	17,510	642
32512	Glazed brick and structural (primary product class of estab.).....	38	4,024	18,435	3,514	7,263	15,309	29,901	13,160	42,759	1,702
	Establishments with:										
	90% or more specialization....	18	2,236	10,412	1,973	4,107	8,919	16,321	7,386	23,679	595
	75-89% specialization.....	7	385	1,698	327	665	1,289	2,314	952	3,201	( <sup>1</sup> )
3259	STRUCTURAL CLAY PRODUCTS, NEC (entire industry).....	192	13,756	56,454	11,795	22,185	44,582	95,881	38,190	134,928	6,759
	Establishments with:										
	90% or more specialization.....	173	12,606	51,539	10,818	20,234	40,637	87,638	35,207	123,464	5,955
	75-89% specialization.....	11	706	3,012	600	1,186	2,397	5,339	1,949	7,411	( <sup>1</sup> )
32591	Clay sewer pipe and fittings (primary product class of estab.)..	70	10,199	41,172	8,909	16,376	33,165	70,101	28,176	99,378	5,371
	Establishments with:										
	90% or more specialization....	48	6,559	26,859	5,746	10,430	22,286	44,655	17,670	62,837	3,149
	75-89% specialization.....	14	1,840	7,358	1,605	2,871	5,549	11,046	4,932	16,087	1,069
32592	Other structural clay products, nec (primary product class of estab.)..	122	3,557	15,282	2,886	5,809	11,417	25,780	10,014	35,550	1,388
	Establishments with:										
	90% or more specialization....	103	2,775	11,958	2,221	4,499	8,693	20,091	7,994	27,726	1,215
	75-89% specialization.....	9	458	1,873	394	757	1,567	3,612	1,114	4,801	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.

Table 9.—Mineral Activities Included in Manufacturing Industries. 1958

Ind. Code	Industry and mineral product	Production workers		Cost of materials for mine or pit <sup>1</sup> (\$1,000)	Quantity produced and used at the same establishment (1,000 tons)
		Man-hours (1,000)	Wages (\$1,000)		
3241	Cement, hydraulic.....	7,567	18,764	17,831	xxx
	Limestone, calcareous marl, dolomite, cement rock.....	xxx	xxx	xxx	65,674
	Common clay and shale.....	xxx	xxx	xxx	7,200
325	Structural clay products.....	4,474	9,014	7,191	xxx
	Fire clay.....	xxx	xxx	xxx	4,342
	Common clay and shale.....	xxx	xxx	xxx	3,564

<sup>1</sup>Cost of supplies, fuels, electric energy, and contract work for mine or pit.





# Pottery and Related Products

## S.I.C. Code and Title (1957 Edition)

- 3261--Vitreous-China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories
- 3262--Vitreous China Table and Kitchen Articles
- 3263--Fine Earthenware (Whiteware) Table and Kitchen Articles
- 3264--Porcelain Electrical Supplies
- 3269--Pottery Products, Not Elsewhere Classified

### 3261--Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories

This industry comprises establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories. For a detailed list of products of Industry 3261, refer to table 6, product codes 3261011 to 3261051.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Vitreous Plumbing Fixtures Industry in 1958 totaled \$143 million. This included shipments of vitreous plumbing fixtures (primary products), valued at \$127 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$12 million.

This industry's shipments of vitreous plumbing fixtures (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 99 percent. Secondary products shipped by this industry in 1958 consisted mainly of plumbing fixture fittings and trim and other pottery and related products.

Industry 3261 shipments of vitreous plumbing fixtures (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$131 million shipped by all industries. In 1954, the coverage ratio was 99 percent.

### 3262--Vitreous China Table and Kitchen Articles

This industry comprises establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in Industry 3263. For a detailed list of products of Industry 3262, refer to table 6, product codes 3262013 to 3262052.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Vitreous China Food Utensils Industry in 1958 totaled \$52 million.

This included shipments of vitreous china food utensils (primary products), valued at \$49 million, shipments of other products (secondary products) valued at \$2 million, and contract work on materials owned by others of \$1 million.

This industry's shipments of vitreous china food utensils (primary products) in 1958 represented 96 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 95 percent. Secondary products shipped by this industry in 1958 consisted mainly of other pottery and related products.

Industry 3262 shipments of vitreous china food utensils (primary products) in 1958 represented 96 percent (coverage ratio) of these products valued at \$51 million shipped by all industries. In 1954, the coverage ratio was also 96 percent.

### 3263--Fine Earthenware (Whiteware) Table and Kitchen Articles

This industry comprises establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in Industry 3262. For a detailed list of products of Industry 3263, refer to table 6, product codes 3263012 to 3263052.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Earthenware Food Utensils Industry in 1958 totaled \$49 million. This included shipments of earthenware food utensils (primary products), valued at \$47 million, shipments of other products (secondary products) valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$1 million.

This industry's shipments of earthenware food utensils (primary products) in 1958 as in 1954 represented 98 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3263 shipments of earthenware food utensils (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$52 million shipped by all industries. In 1954, the coverage ratio was 92 percent.

### 3264--Porcelain Electrical Supplies

This industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials. For a detailed list of products of Industry 3264, refer to table 6, product codes 3264011 to 3264098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Man-



ual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Porcelain Electrical Supplies industry in 1958 totaled \$97 million. This included shipments of porcelain electrical supplies (primary products), valued at \$85 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

This industry's shipments of porcelain electrical supplies (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 94 percent. Secondary products shipped by this industry in 1958 consisted mainly of pottery products, n.e.c.

Industry 3264 shipments of porcelain electrical supplies (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$91 million shipped by all industries. In 1954, the coverage ratio was 87 percent. Another industry shipping porcelain electrical supplies (primary products) was Industry 3679, Electronic Components, N.E.C.

#### 3269--Pottery Products, Not Elsewhere Classified

This industry comprises establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental

pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, n.e.c. For a detailed list of products of Industry 3269, refer to table 6, product codes 3269011 to 3269091.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but now also include china decorating for the trade, old S.I.C. 3265.

Value of shipments and other receipts of the Pottery Products, N.E.C., Industry in 1958 totaled \$79 million. This included shipments of pottery products, n.e.c. (primary products), valued at \$66 million, shipments of other products (secondary products) valued at \$5 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$7 million.

This industry's shipments of pottery products, n.e.c. (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 95 percent.

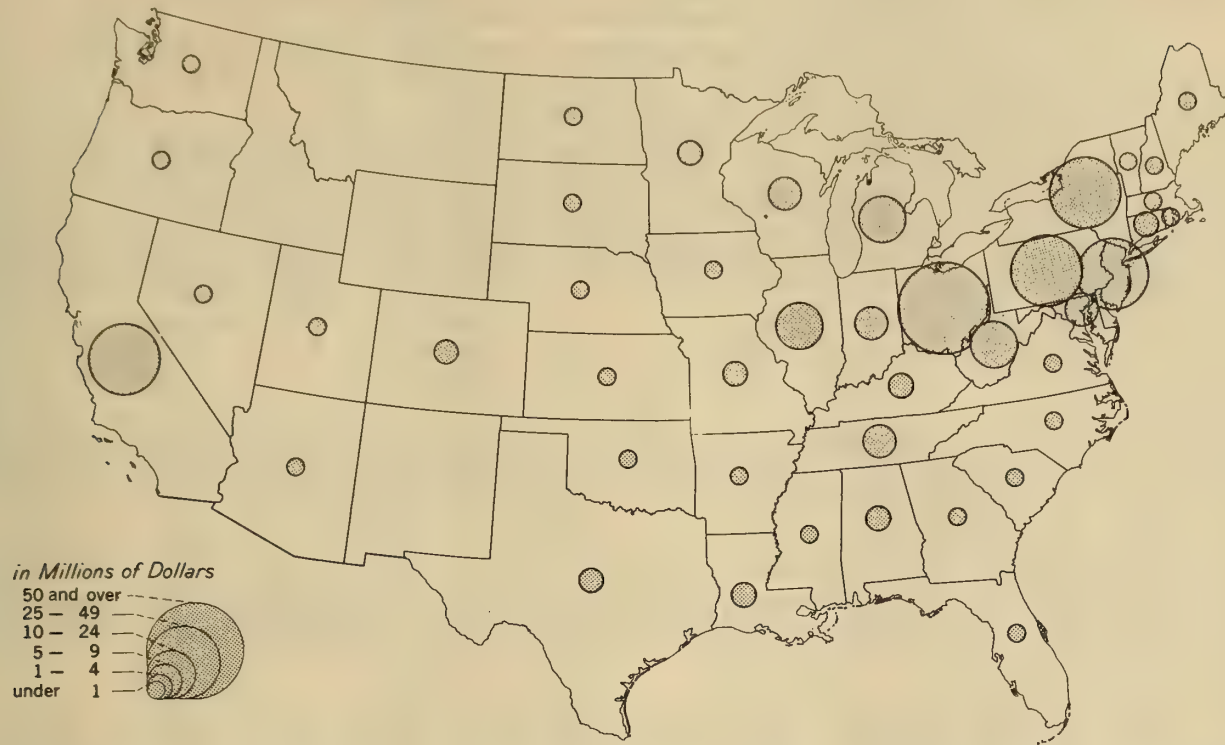
Industry 3269 shipments of pottery products n.e.c. (primary products) in 1958 represented 91 percent (coverage ratio) of these products valued at \$74 million shipped by all industries. In 1954, the coverage ratio was 90 percent. Another industry shipping pottery products n.e.c. (primary products) was Industry 3264, Porcelain Electrical Supplies.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## POTTERY AND RELATED PRODUCTS: SIC 326

Value Added by Manufacture by State: 1958



Includes Industries 3261, 3262, 3263, 3264 and 3269. See Table 2.

Bureau of the Census. M-58-D326

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Special- ization ratio <sup>6</sup> (per- cent)	Cov- erage ratio <sup>7</sup> (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3261 (old SIC 3261)	Vitreous plumbing fixtures:														
		1958.....	35	49	43	9,677	49,568	8,111	15,638	39,580	87,293	52,793	142,683	1,613	97
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,240	52,320	8,690	17,249	41,336	99,011	47,217	142,177	(S)	98
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,365	57,013	9,822	20,254	46,403	117,255	54,594	162,978	(S)	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,883	52,102	9,527	19,758	43,380	107,031	50,599	153,955	(S)	(NA)
		1954.....	25	37	33	9,200	40,541	7,785	15,676	32,987	75,539	50,242	128,229	1,061	99
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,896	37,019	7,582	(NA)	29,253	65,312	31,583	96,895	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,536	43,585	9,191	(NA)	35,827	86,276	40,046	126,322	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,067	38,480	8,757	(NA)	31,411	77,777	33,730	111,507	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,044	32,012	8,020	(NA)	25,923	51,714	30,989	82,703	(NA)	(NA)
		1947.....	26	33	(NA)	7,831	24,615	6,996	14,591	21,187	45,677	22,416	68,093	(NA)	98
		1939.....	(NA)	25	(NA)	5,146	7,669	4,534	(NA)	6,316	14,997	6,982	21,979	(NA)	(NA)
		1937.....	(NA)	30	(NA)	(NA)	(NA)	4,577	(NA)	6,481	14,547	5,846	20,393	(NA)	(NA)
3262	Vitreous China food utensils:														
		1958.....	27	29	24	7,640	30,211	6,385	11,793	22,068	42,355	9,197	51,885	964	96
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,023	30,779	7,011	13,011	23,435	42,120	8,406	49,782	1,045	96
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,306	30,664	7,308	13,733	23,771	41,801	8,475	42,914	1,248	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,441	28,158	7,421	13,496	22,110	37,902	7,937	46,436	701	(NA)
		1954.....	32	34	29	8,704	28,161	7,693	14,061	22,622	36,413	8,675	45,063	1,333	95
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,194	24,860	7,340	13,184	30,407	33,061	7,076	40,137	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,356	27,670	8,454	15,937	22,942	34,791	7,902	42,693	(NA)	(NA)
		1947.....	26	27	25	11,000	26,849	10,326	20,228	23,530	35,228	7,968	43,196	2,692	97
		1939.....	(NA)	17	(NA)	4,798	5,716	4,350	(NA)	4,639	7,653	1,707	9,360	(NA)	(NA)
		1937 <sup>9</sup> .....	(NA)	18	(NA)	(NA)	(NA)	4,671	(NA)	5,030	8,438	1,977	10,415	(NA)	(NA)
3263	Earthenware food utensils:														
		1958.....	33	34	26	8,555	27,812	7,790	12,119	23,864	34,170	13,601	48,517	517	98
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,916	37,918	10,026	17,018	31,915	45,054	17,514	63,212	778	96
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,470	41,439	11,502	19,231	35,045	52,746	18,099	69,307	1,126	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,034	39,706	12,104	19,898	33,686	50,590	17,476	67,985	733	(NA)
		1954.....	46	47	36	13,335	38,742	12,333	19,467	32,468	48,655	17,220	67,029	528	98
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,593	42,790	13,510	22,892	37,172	52,173	15,578	67,751	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,726	54,936	16,159	29,266	46,949	72,062	21,007	93,069	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,822	54,001	16,209	29,483	46,484	70,185	22,743	92,928	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,396	47,492	15,866	29,465	40,219	60,894	20,911	81,805	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,146	46,070	16,705	28,022	39,395	56,140	20,500	76,640	(NA)	(NA)
		1947.....	74	76	42	16,747	42,091	15,742	29,733	37,175	54,837	17,217	72,054	4,784	92
		1939.....	(NA)	31	(NA)	12,773	15,600	11,728	(NA)	13,150	19,644	8,157	27,801	(NA)	(NA)
		1937.....	(NA)	35	(NA)	(NA)	(NA)	11,348	(NA)	12,918	17,945	7,744	25,689	(NA)	(NA)
3264	Porcelain electrical supplies:														
		1958.....	57	59	44	9,107	42,362	7,489	14,741	31,342	66,074	31,014	97,475	4,279	92
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,538	43,758	7,965	15,916	33,159	70,969	30,370	101,957	(S)	(NA)
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,347	45,367	8,813	17,602	35,153	72,604	28,899	99,403	(S)	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,006	40,526	8,458	17,074	31,468	62,727	25,620	86,902	5,645	(NA)
		1954.....	42	45	37	9,550	37,679	7,990	15,847	28,629	54,312	27,798	83,169	5,357	94
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,393	43,480	9,808	19,765	33,947	63,906	28,751	72,657	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,318	41,748	9,870	19,872	33,415	60,576	30,271	90,847	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,120	41,093	10,754	21,706	33,513	62,768	31,846	94,614	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,896	30,496	8,690	17,774	24,434	48,760	21,397	70,157	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,282	27,187	8,168	16,371	21,849	42,120	20,561	62,681	(NA)	(NA)
		1947.....	47	50	40	11,547	30,463	10,447	21,553	25,454	52,832	18,652	71,484	2,904	89
		1939 <sup>10</sup> .....	(NA)	42	(NA)	6,897	8,767	6,018	(NA)	6,530	13,673	7,144	20,817	(NA)	(NA)
		1937 <sup>10</sup> .....	(NA)	37	(NA)	(NA)	(NA)	7,170	(NA)	8,160	16,208	7,451	23,659	(NA)	(NA)
3269	Pottery products, nec: <sup>11</sup>														
		1958.....	580	584	108	9,240	31,194	7,737	15,142	23,758	54,020	25,181	78,755	3,248	92
		1954.....	(NA)	704	115	10,144	28,438	8,958	17,177	22,569	(NA)	17,302	60,456	2,352	95
		1947.....	(NA)	556	126	10,781	22,944	9,865	20,959	19,331	36,218	12,086	48,304	2,710	96
		1939 <sup>9</sup> .....	(NA)	175	(NA)	7,481	9,165	6,475	(NA)	6,824	13,990	4,937	18,927	(NA)	(NA)
		1937 <sup>9</sup> .....	(NA)	147	(NA)	(NA)	(NA)	5,600	(NA)	6,099	12,263	3,997	16,260	(NA)	(NA)

See footnotes at end of table.



# POTTERY AND RELATED PRODUCTS

32C-5

Footnotes for Table 1-25B

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3261	76,740	3264	54,675
3262	36,184	3269	42,710
3263	49,751		

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3261	42,749	39,526	3264	27,040	23,221
3262	8,759	8,254	3269	19,971	16,400
3263	12,771	16,669			

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3261	130,846	116,267	3264	92,627	77,896
3262	51,131	44,478	3269	71,621	59,112
3263	47,639	66,421			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>Establishments primarily engaged in manufacturing vitreous-china household food utensils are excluded from the 1939 and 1937 figures for "Vitreous-china food utensils" and included in the figures for "Pottery products, nec." Five establishments were primarily engaged in making these products in 1947.

<sup>10</sup>Excludes data for establishments which manufactured steatite and other ceramic electrical products.

<sup>11</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: SIC 3265, China Decorating for the Trade and SIC 3269, Pottery Products, NEC. The data for 1957 and earlier years for these two industries have been combined.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3261	Vitreous plumbing fixtures, total....	49	43	9,677	49,568	8,111	15,638	39,580	87,293	142,683	1,613	9,200	40,541	7,831
	Northeast.....	18	15	3,645	17,721	2,993	5,555	14,575	31,343	48,812	664	(2)	(2)	(2)
	North Central.....	17	14	3,693	19,663	3,145	6,130	15,080	32,595	56,461	533	3,035	24,150	2,968
	Ohio.....	4	4	1,143	6,188	968	1,830	4,860	11,778	20,728	(2)	1,128	9,942	967
	Indiana.....	5	5	830	3,986	736	1,370	3,269	7,378	13,946	(3)	641	6,556	(D)
	South.....	8	8	1,181	5,236	999	1,827	4,215	9,591	15,575	(3)	(2)	(2)	(2)
	Pacific.....	6	6	1,158	6,948	974	2,126	5,710	13,764	21,835	(3)	(2)	(2)	(2)
	California.....	6	6	1,158	6,948	974	2,126	5,710	13,764	21,835	(3)	(2)	(2)	(2)
3262	Vitreous china food utensils, total.....	29	24	7,640	30,211	6,385	11,793	22,068	42,355	51,885	964	8,704	36,184	11,100
	Middle Atlantic...	11	10	4,745	20,455	3,899	7,639	14,346	28,115	34,279	619	5,365	24,287	7,199
	New York.....	5	5	2,507	10,640	2,114	4,243	7,610	14,375	17,609	(3)	2,022	9,334	(D)
	East North Central	6	6	1,913	6,375	1,783	2,894	5,474	9,452	11,929	(3)	2,343	7,966	3,901
	South.....	3	3	258	683	233	355	533	1,104	1,212	(D)	995	3,929	
	Pacific.....	9	5	724	2,698	470	905	1,715	3,684	4,465	(3)	(2)	(2)	
	California.....	9	5	724	2,698	470	905	1,715	3,684	4,465	(3)	(2)	(2)	
3263	Earthenware food utensils, total....	34	26	8,555	27,812	7,790	12,119	23,864	34,170	48,517	517	13,335	49,751	16,747
	Middle Atlantic...	6	6	728	2,537	653	1,101	2,236	3,086	5,127	(3)	(2)	(2)	(2)
	North Central.....	12	11	3,886	13,334	3,524	5,992	11,357	17,393	23,547	(3)	5,815	23,581	5,817
	Ohio.....	9	9	3,074	10,316	2,798	4,679	8,958	13,074	18,373	(3)	4,225	16,155	4,468
	South.....	8	5	3,397	10,030	3,183	4,288	8,877	10,710	16,075	(D)	5,352	16,312	7,328
	West Virginia...	5	5	3,376	9,987	3,163	4,265	8,850	10,640	15,946	183	(2)	(2)	(2)
	West.....	8	4	544	1,911	430	738	1,394	2,981	3,768	(D)	(2)	(2)	(2)
3264	Porcelain electrical supplies, total.....	59	44	9,107	42,362	7,489	14,741	31,342	66,074	97,475	4,279	9,550	54,675	11,547
	Northeast.....	29	21	3,396	15,760	2,808	5,609	11,734	24,190	35,847	2,122	3,861	22,264	5,117
	New York.....	5	3	1,160	6,149	949	1,845	4,513	11,039	17,397	(3)	1,329	9,028	1,723
	Pennsylvania....	6	5	1,042	4,741	846	1,717	3,489	6,524	10,095	(D)	(2)	(2)	(2)
	East North Central	15	13	3,208	15,325	2,676	5,101	11,560	23,944	34,008	1,292	3,079	18,382	(D)
	Ohio.....	10	9	1,692	7,978	1,387	2,579	5,907	14,929	22,000	880	1,345	10,246	1,905
	South.....	11	9	2,417	10,959	1,973	3,964	7,956	17,573	27,038	822	(2)	(2)	(2)
	West.....	4	1	86	318	32	67	92	367	582	(3)	(2)	(2)	(2)
3269	Pottery products, nec, total.....	584	108	9,240	31,194	7,737	15,142	23,758	54,020	78,755	3,248	10,144	42,710	10,781
	New England.....	30	2	179	628	154	325	525	1,067	1,468	(3)	(2)	(2)	(2)
	Middle Atlantic...	106	20	1,357	5,145	1,143	2,322	3,871	9,489	13,726	(3)	(2)	(2)	(2)
	New York.....	48	7	406	1,452	330	632	1,048	2,788	4,416	(3)	(2)	(2)	(2)
	New Jersey.....	29	5	373	1,335	321	573	989	2,220	3,207	(3)	(2)	(2)	(2)
	Pennsylvania....	29	8	578	2,358	492	1,117	1,834	4,481	6,103	(3)	624	3,343	(NA)
	North Central.....	124	41	3,706	12,869	3,072	6,175	9,532	21,542	34,139	1,485	(2)	(2)	(2)
	Illinois.....	22	9	1,084	3,707	954	2,060	2,966	6,583	10,234	(2)	(2)	(2)	(2)
	South Atlantic....	48	6	397	922	300	525	618	1,806	2,483	(3)	(2)	(2)	(2)
	West Virginia...	9	1	108	248	94	183	199	327	467	(3)	(2)	(2)	(2)
	East South Central	23	5	444	1,190	393	759	1,000	1,936	2,728	(3)	(2)	(2)	(2)
	West South Central	24	6	307	814	277	537	698	1,447	1,808	(3)	(2)	(2)	(2)
	Texas.....	15	5	226	591	206	398	499	1,117	1,347	(3)	(2)	(2)	(2)
	West.....	229	28	2,850	9,626	2,398	4,499	7,514	16,733	22,403	1,052	(2)	(2)	(2)
	California.....	199	27	2,279	7,071	1,959	3,606	5,650	13,191	17,429	714	(2)	(2)	(2)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3261, Vitreous Plumbing Fixtures: Northeast—Connecticut, 1 (250-499); New York, 3 (20-99); New Jersey, 12 (1,000-2,499); Pennsylvania, 2 (1,000-2,499); North Central—Illinois, 4 (1,000-2,499); Michigan, 1 (1-19); Wisconsin, 1 (500-999); Missouri, 1 (1-19); Kansas, 1 (1-19); South—West Virginia, 1 (100-249); South Carolina, 1 (100-249); Georgia, 1 (20-99); Alabama, 1 (20-99); Louisiana, 1 (250-499); Texas, 3 (250-499).

SIC 3262, Vitreous China Food Utensils: Middle Atlantic—New Jersey, 2 (500-999); Pennsylvania, 4 (1,000-2,499); East North Central—Ohio, 4 (1,000-2,499); Illinois, 1 (20-99); Michigan, 1 (500-999); South—West Virginia, 2 (100-249); West South Central—Oklahoma, 1 (20-99).

SIC 3263, Earthenware Food Utensils: Middle Atlantic—New York, 1 (20-99); New Jersey, 1 (100-249); Pennsylvania, 4 (500-999); North Central—Illinois, 2 (500-999); Minnesota, 1 (100-249); South—Maryland, 1 (1-19); Florida, 1 (1-19); Tennessee, 1 (1-19); West—Arizona, 1 (1-19); California, 7 (500-999).

SIC 3264, Porcelain Electrical Supplies: Northeast—Massachusetts, 2 (20-99); Connecticut, 2 (100-249); New Jersey, 14 (1,000-2,499); East North Central—Indiana, 1 (1-19); Illinois, 2 (250-499); Michigan, 1 (500-999); Wisconsin, 1 (100-249); South—Maryland, 3 (500-999); West Virginia, 3 (250-499); North Carolina, 1 (20-99); Tennessee, 4 (1,437); West—Utah, 1 (20-99); California, 3 (20-99).

SIC 3269, Pottery Products, NEC: New England—Maine, 2 (1-19); New Hampshire, 3 (1-19); Vermont, 3 (1-19); Massachusetts, 14 (100-249); Rhode Island, 2 (1-19); Connecticut, 6 (20-99); North Central—Ohio, 53 (1,000-2,499); Indiana, 4 (20-99); Michigan, 11 (100-249); Wisconsin, 8 (20-99); Minnesota, 2 (1-19); Iowa, 3 (1-19); Missouri, 15 (250-499); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 2 (20-99); Kansas, 2 (1-19); South Atlantic—Maryland, 2 (20-99); Virginia, 5 (1-19); West Virginia, 9 (100-249); North Carolina, 8 (20-99); Georgia, 12 (100-249); Florida, 12 (20-99); East South Central—Kentucky, 12 (250-499); Tennessee, 6 (20-99); Alabama, 1 (1-19); Mississippi, 4 (20-99); West South Central—Arkansas, 2 (20-99); Louisiana, 1 (1-19); Oklahoma, 6 (20-99); West—Idaho, 1 (1-19); Colorado, 12 (500-999); Arizona, 7 (1-19); Utah, 2 (1-19); Nevada, 1 (1-19); Washington, 3 (20-99); Oregon, 4 (20-99).

<sup>2</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>3</sup>Less than \$500 thousand.



## POTTERY AND RELATED PRODUCTS

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Table 3.—Detailed Statistics for the United States: 1958

Item	Vitreous plumbing fixtures (SIC 3261)	Vitreous china food utensils (SIC 3262)	Earthenware food utensils (SIC 3263)	Porcelain electrical supplies (SIC 3264)	Pottery products, nec (SIC 3269)
Primary product specialization ratio <sup>1</sup> .....	97	96	98	92	92
Coverage ratio <sup>2</sup> .....	97	96	90	93	91
Number of establishments, total.....	49	29	34	59	584
With 1-19 employees.....	6	5	8	15	476
With 20-99 employees.....	10	6	7	19	90
With 100 employees or more.....	33	18	19	25	18
Proprietors and working partners.....Number..	2	7	9	14	513
All employees:					
Number (average for the year).....	9,677	7,640	8,555	9,107	9,240
Payroll.....\$1,000..	49,568	30,211	27,812	42,362	31,194
Production workers:					
Number (average for the year).....	8,111	6,385	7,790	7,489	7,737
March.....	8,187	6,586	8,143	7,574	7,709
May.....	7,922	6,415	7,258	7,386	7,276
August.....	7,661	6,216	7,543	7,312	7,813
November.....	8,680	6,323	8,194	7,722	8,351
Man-hours.....1,000..	15,638	11,793	12,119	14,741	15,142
January-March.....do...	4,012	3,134	3,006	3,737	3,684
April-June.....do...	3,698	3,084	2,671	3,626	3,581
July-September.....do...	3,658	2,705	2,887	3,465	3,802
October-December.....do...	4,270	2,870	3,555	3,913	4,075
Wages.....\$1,000..	39,580	22,068	23,864	31,342	23,758
Cost of materials, etc., total.....do...	52,793	9,197	13,601	31,014	25,181
Materials, parts, containers, and supplies consumed.....do...	38,137	7,039	11,116	24,101	17,144
Cost of resales.....do...	10,044	438	830	3,974	5,210
Fuels consumed.....do...	3,286	1,284	1,159	1,788	1,638
Electricity purchased.....do...	1,089	436	496	910	827
Contract work.....do...	239	...	...	241	362
Value of shipments (including resales), total.....do...	142,683	51,885	48,517	97,475	78,755
Value of resales.....do...	11,837	754	878	4,848	7,134
Value added by manufacture, adjusted.....do...	87,293	42,355	34,170	66,074	54,020
Manufacturers' inventories:					
Beginning of year, total.....do...	27,320	12,151	11,876	14,730	7,682
Finished products.....do...	16,095	5,619	6,397	4,023	4,075
Work-in-process.....do...	2,312	3,724	1,763	4,556	815
Materials, supplies, fuel, etc.....do...	8,913	2,808	3,716	6,151	2,792
End of year, total.....do...	24,476	11,741	10,795	13,914	8,374
Finished products.....do...	12,925	5,681	5,812	3,476	4,415
Work-in-process.....do...	2,885	3,329	1,602	4,716	921
Materials, supplies, fuel, etc.....do...	8,666	2,731	3,381	5,722	3,038
Expenditures for plant and equipment, total.....do...	1,642	969	590	4,350	3,489
New, total.....do...	1,613	964	517	4,279	3,248
New structures and additions to plant.....do...	647	185	53	1,374	1,326
New machinery and equipment.....do...	966	779	464	2,905	1,922
Used plant and equipment.....do...	29	5	73	71	241

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									1,000-2,499 employees	2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees			
3261	Vitreous plumbing fixtures:												
	Number of establishments.....	49	3	...	3	4	6	18	11	4	...	...	
	All employees:												
	Number.....	9,677	38	...	(D)	131	458	3,025	3,471	2,554	...	...	
	Payroll.....\$1,000..	49,568	191	...	(D)	444	2,214	14,518	18,266	13,935	...	...	
	Value added, adjusted..do....	87,293	318	...	(D)	648	3,253	23,658	36,736	22,680	...	...	
	Value of shipments.....do....	142,683	623	...	(D)	1,407	5,000	42,700	57,284	35,669	...	...	
	Capital expend., new...do....	1,613	(1)	...	(D)	(1)	(1)	516	744	278	...	...	
3262	Vitreous china food utensils:												
	Number of establishments.....	29	1	3	1	1	5	7	5	5	1	...	
	All employees:												
	Number.....	7,640	57	(D)	(D)	(D)	286	1,144	1,679	4,474	(D)	...	
	Payroll.....\$1,000..	30,211	164	(D)	(D)	(D)	822	4,026	7,290	17,909	(D)	...	
	Value added, adjusted..do....	42,355	270	(D)	(D)	(D)	1,202	5,420	10,442	25,021	(D)	...	
	Value of shipments.....do....	51,885	337	(D)	(D)	(D)	1,488	6,446	13,152	30,462	(D)	...	
	Capital expend., new...do....	964	(1)	(D)	(D)	...	(D)	(1)	(1)	639	(D)	...	
3263	Earthenware food utensils:												
	Number of establishments.....	34	4	2	2	5	2	8	5	5	1	...	
	All employees:												
	Number.....	8,555	59	(D)	(D)	297	(D)	1,322	1,775	5,102	(D)	...	
	Payroll.....\$1,000..	27,812	173	(D)	(D)	872	(D)	4,165	6,012	16,590	(D)	...	
	Value added, adjusted..do....	34,170	404	(D)	(D)	1,018	(D)	5,170	8,317	19,261	(D)	...	
	Value of shipments.....do....	48,517	649	(D)	(D)	1,967	(D)	7,691	11,147	27,063	(D)	...	
	Capital expend., new...do....	517	(1)	(D)	(D)	(D)	(D)	(1)	(1)	(1)	(D)	...	
3264	Porcelain electrical supplies:												
	Number of establishments.....	59	6	2	7	7	12	16	4	5	...	...	
	All employees:												
	Number.....	9,107	26	(D)	108	222	822	2,695	1,281	3,953	...	...	
	Payroll.....\$1,000..	42,362	108	(D)	503	800	3,023	11,200	6,016	20,712	...	...	
	Value added, adjusted..do....	66,074	193	(D)	675	1,179	3,983	17,358	9,255	33,431	...	...	
	Value of shipments.....do....	97,475	449	(D)	1,161	1,656	5,011	26,233	13,990	48,975	...	...	
	Capital expend., new...do....	4,279	(1)	(D)	(1)	(1)	(1)	(1)	1,485	1,801	...	...	
3269	Pottery products, nec:												
	Number of establishments.....	584	324	87	65	59	31	17	1	...	...	...	
	All employees:												
	Number.....	9,240	623	588	888	1,823	2,173	3,145	(D)	...	...	...	
	Payroll.....\$1,000..	31,194	1,493	1,735	2,731	5,832	7,866	11,537	(D)	...	...	...	
	Value added, adjusted..do....	54,020	3,709	3,469	5,106	9,915	14,201	17,620	(D)	...	...	...	
	Value of shipments.....do....	78,755	5,943	5,277	6,903	14,711	18,995	26,926	(D)	...	...	...	
	Capital expend., new...do....	3,248	(1)	(1)	(1)	774	(1)	927	(D)	...	...	...	

<sup>1</sup>Less than \$500 thousand.



# POTTERY AND RELATED PRODUCTS

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**Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954**

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3261	Vitreous plumbing fixtures.....1958..	142,683	126,746	4,074	11,863	97	130,517	126,746	3,771	97
	1954..	128,229	115,356	883	11,990	99	116,560	115,356	1,204	99
3262	Vitreous china food utensils...1958..	51,885	48,952	2,179	754	96	50,995	48,952	2,043	96
	1954..	45,063	42,396	2,066	601	95	44,249	42,396	1,853	96
3263	Earthenware food utensils.....1958..	48,517	46,840	737	940	98	51,848	46,840	5,008	90
	1954..	67,029	65,198	1,218	613	98	70,752	65,198	5,554	92
3264	Porcelain electrical supplies..1958..	97,475	84,749	7,492	5,234	92	91,097	84,749	6,348	93
	1954..	83,169	72,998	4,853	5,318	94	83,928	72,998	10,930	87
3269	Pottery products, nec.....1958..	78,755	66,156	5,241	7,358	92	73,653	66,156	7,497	91
	1954..	60,456	55,930	2,753	1,773	95	61,899	55,930	5,969	90

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

**Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958**

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Industry	Vitreous plumbing fixtures (SIC 3261)	Vitreous china food utensils (SIC 3262)	Earthenware food utensils (SIC 3263)	Porcelain electrical supplies (SIC 3264)	Pottery products, nec (SIC 3269)	Other industries	All industries
	Total shipments of the industry.....	142,683	51,885	48,517	97,475	78,755	xxx	xxx
	Pottery and related products:							
32610	Vitreous plumbing fixtures.....	126,746	...	...	(D)	(D)	2,879	130,517
32620	Vitreous china food utensils.....	(D)	48,952	...	(D)	(D)	1,726	50,995
32630	Earthenware food utensils.....	...	(D)	46,840	...	(D)	(D)	51,848
32640	Porcelain electrical supplies.....	(D)	...	...	84,749	(D)	4,506	91,097
32690	Pottery products, nec.....	(D)	(D)	737	2,477	66,156	2,642	73,653
	Other products.....	3,361	389	...	4,393	2,324	xxx	xxx
	Miscellaneous receipts.....	11,863	754	940	5,234	7,358	xxx	xxx
	Sales of products bought and resold.....	11,837	754	878	4,848	7,134	xxx	xxx
	Other miscellaneous receipts.....	26	...	62	386	224	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6.-Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1953		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3261---	Vitreous and semivitreous plumbing fixtures and accessories, total.....	.....	xxx	130,517	xxx	116,560
3261011	Vitreous and semivitreous (earthenware) plumbing fixtures:					
	Total as reported in the Census of Manufactures.....	.....	xxx	<sup>1</sup> 119,226	xxx	111,729
	Total as reported on Census quarterly form M34E <sup>2</sup> .....	.....	xxx	<sup>3</sup> 124,553	xxx	<sup>3</sup> 107,259
3261014	Drinking fountains.....	Numbers.....	68,978	xxx	65,540	xxx
3261016	Laboratories.....	..do.....	2,179,082	xxx	1,698,412	xxx
	Water closet bowls:					
3261018	Syphon jet.....	..do.....	484,436	xxx	463,634	xxx
3261020	Washdown.....	..do.....	1,809,978	xxx	1,726,415	xxx
3261022	Reverse trap.....	..do.....	1,937,223	xxx	1,595,977	xxx
3261024	Flush tanks.....	..do.....	3,601,842	xxx	3,330,392	xxx
3261026	Urinals.....	..do.....	157,186	xxx	131,383	xxx
3261051	China and earthenware plumbing fixture accessories and fittings (including towel racks, soap cups, etc.).....	.....	xxx	10,527	xxx	4,831
3261000	Vitreous and semivitreous plumbing fixture, nsk.....	.....	xxx	764	xxx	xxx
3262---	Vitreous-China food utensils, total.....	.....	xxx	50,995	xxx	<sup>r</sup> 44,249
	Tableware (for serving food and drink):					
	Household:					
3262013	Dinnerware.....	1,000 doz. pes.	1,109	19,918	<sup>4</sup> 1,165	<sup>4</sup> 14,752
3262015	Other (including casual and teaware).....	..do.....	119	1,136		
3262018	Hotel or commercial.....	..do.....	4,942	27,393	(NA)	<sup>r</sup> 29,497
3262052	Kitchenware, household and commercial (for cooking, preparing and storing food and drink).....	..do.....	307	2,353		
3262000	Vitreous-china food utensils, nsk.....	.....	xxx	195		
3263---	Earthenware (semivitreous) food utensils, total.....	.....	xxx	51,848	xxx	<sup>r</sup> 70,752
3263012	Tableware, household and commercial (for serving food and drink).....	1,000 doz. pes.	16,484	46,895	32,485	<sup>r</sup> 65,296
3263052	Kitchenware, household and commercial (for cooking, preparing, and storing food and drink).....	..do.....	1,513	3,655	4,685	5,456
3263000	Earthenware (semivitreous) food utensils, nsk.....	.....	xxx	1,298	xxx	...
Value of shipments including interplant transfers (\$1,000)						
			1958		1954	
3264---	Porcelain electrical supplies, total.....	.....	<sup>5</sup> 91,097		<sup>5</sup> 83,928	
	Porcelain electrical products:					
	High voltage porcelain products (wet process porcelain) including integral hardware parts.....	.....	49,754		39,371	
3264021	All standard dry process electrical porcelain, including cleats, knobs, tubes, outlet and switch box covers, etc.....	.....	4,090		3,621	
3264031	All special dry process electrical porcelain, including porcelain parts for wiring devices, fuses, circuit breakers, radio receiving sets, spark plugs, etc., and electrical refractory porcelain.....	.....	6,751		23,408	
3264041	Steatite electrical products.....	.....	8,603		8,930	
3264098	Other ceramic electrical products, including alumina, ferrite (except for electronic applications), titanate, etc., electrical products.....	.....	19,120		8,598	
3264000	Porcelain electrical supplies, nsk.....	.....	2,779			
	Pottery products, nec, total.....	.....	73,653		61,899	
32690	Pottery products, including china decorating for the trade, nec:					
	Art, decorative and novelty pottery ware (include vases, lamp bases, figures, plaques, bookends, garden pottery, ash trays):					
3269011	China and porcelain.....	.....	14,608		15,288	
3269031	Earthenware and stoneware.....	.....	15,171		18,788	
3269010	Art, decorative and novelty pottery products, nsk.....	.....	5,994		3,715	
3269040	Stoneware table and kitchen articles, household and commercial (for serving, cooking, preparing, and storing food and drink).....	.....	4,587		2,555	
	Other pottery products, nec:					
3269061	Chemical, technical and industrial pottery ware (include chemical stoneware and porcelain pyrometric tubes, etc.).....	.....	9,309		5,396	
3269071	Red unglazed earthenware (flower pots, etc.).....	.....	5,289		5,347	
3269081	All other pottery products (include pyrometric cones, veritas rings, etc.).....	.....	3,950			
	Pottery products, except art, decorative and novelty pottery ware, nsk.					
	Pottery products, nsk.....	.....	3,373		7,232	
3269091	China decorating for the trade.....	.....	7,682			
		.....	3,690		3,578	

NA Not available. <sup>r</sup>Revised.<sup>1</sup>Not directly comparable to value of shipments of vitreous and semivitreous (earthenware) plumbing fixtures reported on the Census quarterly form M34E, because of reporting differences (i.e., value of shipments reported on current survey excluded allowance for cash discounts.)<sup>2</sup>The quantity data for vitreous plumbing fixtures were obtained from the Census quarterly survey M34E in 1958, and M51H in 1954, as revised. No separate quantity data for vitreous and semivitreous sinks, laundry trays, sink and laundry tray combinations, and other plumbing fixtures are available since these items were combined with similar items made of other materials in the quarterly survey.<sup>3</sup>Represents vitreous-china only. In addition, shipments valued at \$2,236,000 in 1958 and \$2,577,000 in 1954, were reported for plumbing fixtures made of earthenware, concrete, and composition.<sup>4</sup>Revised per M32H-07, Vitreous-China and Earthenware Table and Kitchen Articles, 1957, 1956 and 1954.<sup>5</sup>An undetermined amount of metal fittings that are an integral part of insulators are included in the value of shipments of porcelain electrical supplies.

Tables 7 and 8 not applicable.



# Concrete, Gypsum, Stone, and Plaster Products

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

3271—Concrete Brick and Block  
3272—Concrete Products, Except Block and Brick  
3273—Ready-Mixed Concrete  
3274—Lime  
3275—Gypsum Products  
3281—Cut Stone and Stone Products

### 3271—Concrete Brick and Block

This industry comprises establishments primarily engaged in manufacturing concrete building blocks and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and building materials dealers primarily engaged in mixing and delivering ready-mixed concrete in Industry 3273. For a detailed list of products of Industry 3271, refer to table 6A, product codes 3271011 to 3271000.

The statistics for this industry as classified under the classification system followed in the 1954 Census were split, as a result of the 1957 edition of the Standard Industrial Classification Manual, into two separate industries, 3271, Concrete Brick and Block and 3272, Concrete Products.

Value of shipments and other receipts of the Concrete Brick and Block Industry in 1958 totaled \$414 million. This included shipments of concrete brick and block (primary products), valued at \$315 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts (resales) of \$64 million.

This industry's shipments of concrete brick and block (primary products) in 1958 represented 90 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of other precast and prestressed concrete products, \$13 million, and ready-mixed concrete, \$11 million.

Industry 3271 shipments of concrete brick and block (primary products) in 1958 represented 83 percent (coverage ratio) of these products valued at \$379 million shipped by all industries. Other industries shipping concrete brick and block (primary products) consisted mainly of Industry 3273, Ready-Mixed Concrete, \$34 million, and Industry 3272, Concrete Products, \$26 million.

### 3272—Concrete Products, Except Block and Brick

This industry comprises establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and building materials dealers primarily engaged in mixing and delivering ready-mixed concrete in Industry 3273. For a detailed list of products of Industry 3272, refer to table 6A, product codes 3272111 to 3272000.

The statistics for this industry, Concrete Products, except Block and Brick, as classified under the 1957 edition of the Standard Industrial Classification Manual were formerly part of Industry 3271, Concrete Products, under the classification system followed in the 1954 Census. Gypsum products formerly classified in Industry 3272 are now included in Industry 3275.

Value of shipments and other receipts of the Concrete Products, Industry in 1958 totaled \$719 million. This included shipments of concrete products (primary products), valued at \$622 million, shipments of other products (secondary products) valued at \$39 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$58 million.

This industry's shipments of concrete products (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of concrete brick and block, \$26 million, and ready-mixed concrete, \$9 million.

Industry 3272 shipments of concrete products (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$661 million shipped by all industries. Other industries shipping concrete products (primary products) consisted mainly of Industry 3271, Concrete Brick and Block, \$19 million, and Industry 3273, Ready-Mixed Concrete.

### 3273—Ready-Mixed Concrete

This industry comprises establishments primarily engaged in manufacturing Portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central mixed concrete, shrink mixed concrete and transit mixed concrete.

The Ready-Mixed Concrete Industry is included for the first time in the Census of Manufactures for 1958. No comparable figures are available for 1954. For detailed data on products of Industry 3273, refer to table 6A, product code 3273011.

Value of shipments and other receipts of the Ready-Mixed Concrete Industry in 1958 totaled \$1,682 million. This included shipments of ready-mixed concrete (primary products), valued at \$1,424 million, shipments of other products (secondary products) valued at \$119 million, and miscellaneous receipts of \$139 million.

This industry's shipments of ready-mixed concrete (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of common sand and gravel, \$42 million, and concrete brick and block, \$34 million.

Industry 3273 shipments of ready-mixed concrete (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$1,464 million shipped by all industries. Other industries shipping ready mixed concrete (primary products) consisted mainly of Industry 3271, Concrete Brick and Block, \$11 million, and Industry 3272, Concrete Products, \$9 million.



3274-Lime

This industry comprises establishments primarily engaged in manufacturing quicklime, hydrated lime, and dead burned dolomite from limestone, dolomite shells, or other substances. For a detailed list of products of Industry 3274, refer to table 6A, product codes 3274011 to 9512034.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Lime Industry in 1958 totaled \$131 million. This included shipments of lime (primary products), valued at \$104 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$6 million.

This industry's shipments of lime (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 84 percent. Secondary products shipped by this industry in 1958 consisted mainly of crushed and broken limestone, \$16 million.

Industry 3274 shipments of lime (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$109 million shipped by all industries. In 1954, the coverage ratio was 97 percent. Another industry shipping lime (primary products) was Industry 1422, Crushed and Broken Limestone, \$2 million.

3275--Gypsum Products

This industry comprises establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum. For a detailed list of products of Industry 3275, refer to table 6A, product codes 3275111 to 3275000.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3275 from code number 3272 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Gypsum Products Industry in 1958 totaled \$365 million. This included shipments of gypsum products (primary products), valued at \$336 million, shipments of other products (secondary products) valued at \$17 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$12 million.

This industry's shipments of gypsum products (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was also 95 percent. Secondary products shipped by this industry in 1958 consisted mainly of minerals and earths, \$8 million.

Industry 3275 shipments of gypsum products (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$344 million shipped by all industries. In 1954, the coverage ratio was also 98 percent.

3281--Cut Stone and Stone Products

This industry comprises establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries. For a detailed list of products of Industry 3281, refer to table 6A, product codes 3281101 to 3281000.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Cut Stone and Stone Products Industry in 1958 totaled \$206 million. This included shipments of cut stone and stone products (primary products), valued at \$185 million, shipments of other products (secondary products) valued at \$9 million, and miscellaneous receipts (mainly resales) of \$12 million.

This industry's shipments of cut stone and stone products (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent. Secondary products shipped by this industry in 1958 consisted mainly of crushed and broken stone \$2 million, and dimension stone, n.e.c., \$1 million.

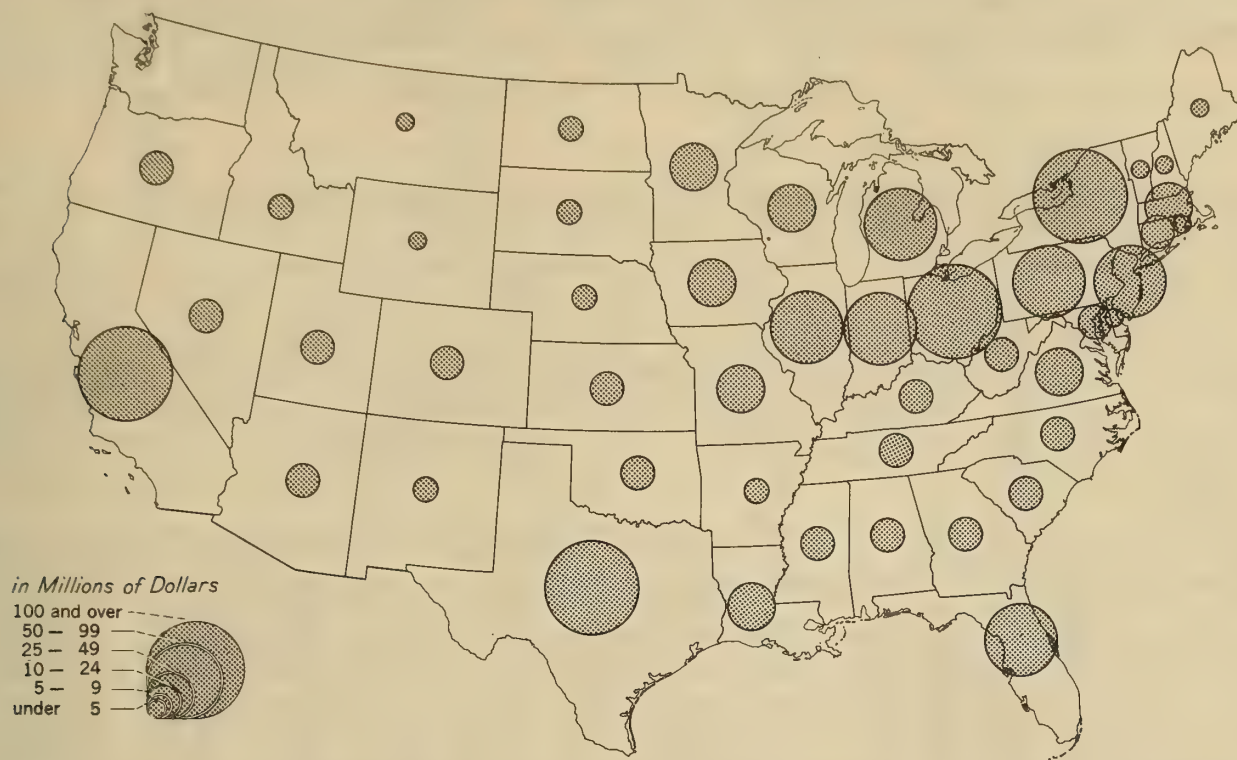
Industry 3281 shipments of cut stone and stone products (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$191 million shipped by all industries. In 1954, the coverage ratio was 99 percent. Other industries shipping cut stone and stone products (primary products) consisted mainly of Industry 1422, Crushed and Broken Stone, \$2 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



CONCRETE, GYPSUM, AND PLASTER PRODUCTS: SIC 327

Value Added by Manufacture by State: 1958

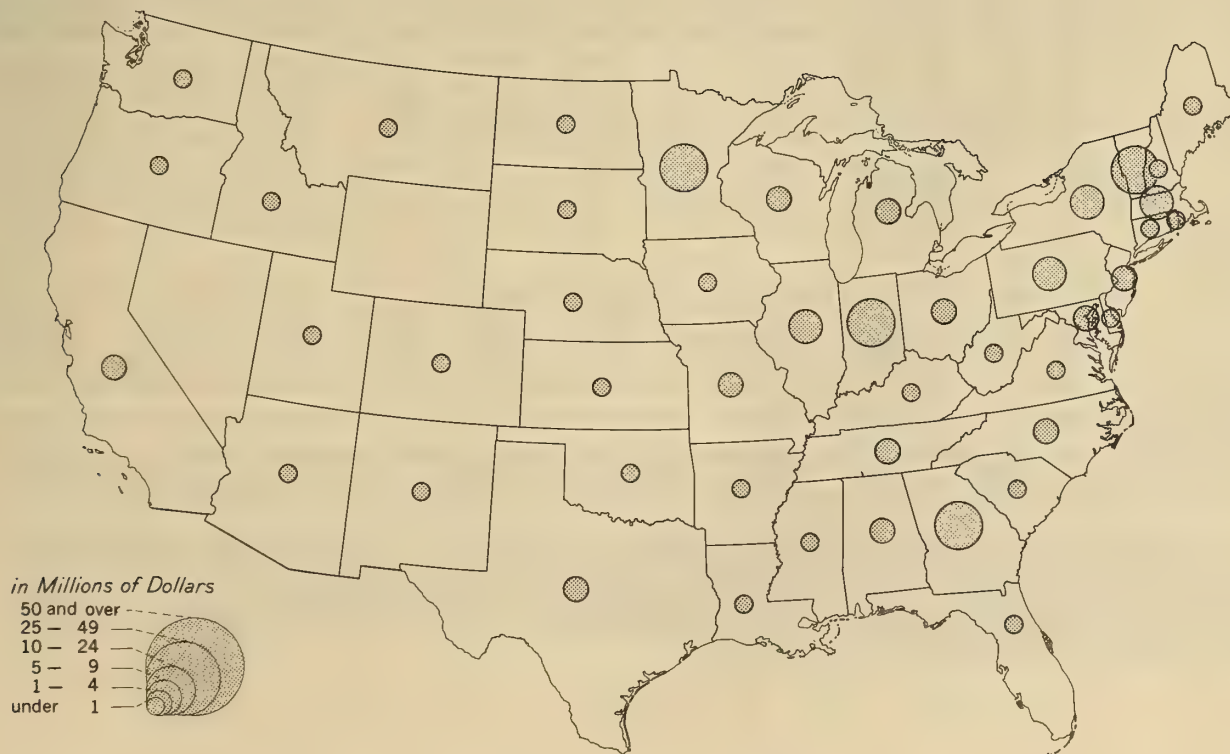


Includes Industries 3271, 3272, 3273, 3274, and 3275. See Table 2.

Bureau of the Census M-58-D327

CUT STONE AND STONE PRODUCTS: SIC 328

Value Added by Manufacture by State: 1958



Includes only Industry 3281. See Table 2.

Bureau of the Census M-58-D328

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Speci- aliza- tion ratio <sup>6</sup>	Cov- erage <sup>7</sup>
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3271	Concrete block and brick:														
	1958.....	81,763	1,796	336	22,766	98,103	16,404	32,933	61,292	190,355	224,333	413,670	22,790	90	83
3272	Concrete products:														
	1958.....	83,184	3,455	616	46,182	199,883	36,183	73,436	141,319	390,378	331,525	718,543	44,232	94	94
	Sum of above industries: <sup>9</sup>														
	1958.....	4,947	5,251	952	68,948	297,986	52,587	106,369	202,611	580,733	555,858	1,132,213	70,072	(NA)	(NA)
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	69,866	271,692	53,667	111,183	184,923	660,042	503,591	1,071,914	48,389	(NA)	(NA)
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	69,986	266,468	54,248	114,030	183,035	674,878	427,210	1,071,511	51,772	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	66,270	238,286	51,680	106,210	163,387	507,748	392,214	867,371	47,155	(NA)	(NA)
	1954.....	4,879	5,090	774	60,410	216,954	46,659	96,707	146,075	418,569	399,643	813,230	40,548	99	99
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	59,200	208,016	47,725	99,961	150,446	398,552	309,833	708,385	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	66,444	222,674	53,526	116,729	169,591	432,615	358,681	791,296	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	65,107	210,116	51,676	115,299	155,122	413,074	321,429	734,503	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	60,886	175,879	48,658	104,064	130,125	336,064	270,611	606,677	(NA)	(NA)	(NA)
	1949 <sup>10</sup> .....	(NA)	(NA)	(NA)	53,787	136,723	44,293	94,764	102,734	245,290	219,324	464,614	(NA)	(NA)	(NA)
	1947.....	(NA)	6,158	513	46,821	106,484	41,537	89,031	88,471	202,789	126,945	329,734	35,692	99	99
	1939.....	(NA)	1,892	(NA)	(NA)	(NA)	15,455	(NA)	16,324	55,372	48,188	103,560	(NA)	(NA)	(NA)
3273	Ready-mixed concrete:														
	1958 <sup>11</sup> .....	3,120	3,647	944	61,890	301,607	44,055	88,084	200,977	676,062	1,005,585	1,681,926	70,990	92	97
3274	Lime:														
	1958.....	95	137	76	7,185	32,754	6,098	12,509	25,521	73,597	57,514	130,948	6,362	83	95
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,309	38,552	7,053	15,431	31,034	85,512	73,859	158,115	(S)	89	98
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,344	36,950	7,139	15,701	29,850	82,011	68,631	150,169	(S)	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,261	33,514	7,084	15,380	27,153	78,644	58,500	135,189	(S)	(NA)	(NA)
	1954.....	113	145	81	7,989	30,645	6,835	14,456	24,454	57,986	54,868	112,854	4,835	84	97
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	7,935	30,788	6,773	14,744	24,886	63,416	54,187	117,603	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,045	26,591	6,903	14,791	21,151	54,943	49,682	104,625	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	7,933	26,302	6,773	15,539	21,186	55,863	49,383	105,246	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	7,316	23,011	6,335	14,023	18,607	48,370	42,753	91,105	(NA)	(NA)	(NA)
	1949 <sup>10</sup> .....	(NA)	(NA)	(NA)	7,514	21,451	6,336	13,777	17,129	40,705	42,365	83,070	(NA)	(NA)	(NA)
	1947.....	(NA)	172	94	7,009	18,767	6,129	14,200	15,516	39,253	33,589	72,842	10,745	93	97
	1939.....	(NA)	316	(NA)	(NA)	(NA)	6,708	(NA)	6,688	18,574	24,901	43,475	(NA)	(NA)	(NA)
3275 (old SIC 3272)	Gypsum products:														
	1958.....	74	126	63	11,502	57,978	9,447	20,606	45,412	218,042	146,609	364,947	9,376	95	98
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	11,181	54,251	9,243	20,617	43,064	181,900	126,962	305,244	12,181	99	98
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	12,388	57,823	10,419	23,334	46,360	192,324	138,875	324,983	38,966	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	12,060	56,555	10,252	24,304	46,520	193,971	139,354	329,869	38,698	(NA)	(NA)
	1954.....	48	90	56	10,966	48,639	9,278	21,927	39,715	165,271	130,326	295,564	10,227	95	98
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	9,901	43,174	8,068	19,472	33,453	138,311	114,991	253,302	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,586	35,811	7,160	18,123	29,401	119,883	103,650	223,533	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	9,646	37,133	8,332	19,235	29,578	120,944	113,022	233,966	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,979	33,378	7,979	19,630	28,684	124,070	79,514	203,584	(NA)	(NA)	(NA)
	1949 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,720	27,341	7,438	16,788	21,469	92,203	74,573	166,776	(NA)	(NA)	(NA)
	1947.....	(NA)	73	50	7,472	21,384	6,543	15,552	17,911	67,879	59,664	127,543	24,386	97	98
	1939.....	(NA)	68	(NA)	5,863	8,541	4,936	(NA)	6,666	29,548	16,694	46,242	(NA)	(NA)	(NA)
	1937.....	(NA)	79	(NA)	5,859	8,016	5,207	(NA)	6,591	25,936	16,681	42,617	(NA)	(NA)	(NA)
	1935 <sup>12</sup> .....	(NA)	72	(NA)	3,894	4,513	3,382	(NA)	3,444	17,367	8,921	26,288	(NA)	(NA)	(NA)
3281	Cut stone and stone products:														
	1958 <sup>13</sup> .....	959	1,001	243	20,348	83,038	16,995	33,056	63,818	129,038	77,072	206,264	8,405	95	97
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	21,329	83,311	18,324	35,115	63,899	140,166	76,947	215,419	(S)	(NA)	(NA)
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	22,082	84,759	19,206	37,672	66,046	141,219	76,102	212,691	(S)	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	22,295	82,235	19,530	37,752	64,481	137,788	70,532	206,158	(S)	(NA)	(NA)
	1954 <sup>13</sup> .....	961	977	239	21,576	78,240	18,410	36,721	60,650	121,465	70,144	191,494	4,296	93	99

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

Footnotes continued on next page



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<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>As a result of the 1957 revision in the Standard Industrial Classification for this industry (see text), 1,063 establishments in the smaller size classes accounting for \$79,260 thousand of concrete products, not specified by kind, (including an undetermined amount of concrete block and brick), have been included in Industry 3272, Concrete Products, Except Block and Brick. This does affect the total establishment count and the number of establishments in the smaller size classes for each industry but has considerably less effect on other statistics. Not all of the 1,063 establishments reporting concrete products, not specified by kind, were affected as to industry classification.

<sup>9</sup>The two industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

<sup>40</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>11</sup>The Ready-Mixed Concrete Industry is included for the first time in the 1958 Census of Manufactures for 1958. No comparable figures are available for earlier years.

<sup>12</sup>"Gypsum products" formerly were classified in the "Wallboard, insulating board, Gypsum and Other plasters and floor composition" industry, therefore comparable figures are not available for earlier years.

<sup>13</sup>Data for earlier years not comparable because dressing plants operated in conjunction with quarries were not included.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3271	Concrete block and brick, total.....	21,796	336	22,766	98,103	16,404	32,933	61,292	190,355	413,670	22,790	(3)	(3)	(3)
	New England.....	106	12	1,058	5,188	744	1,540	3,180	9,516	19,088	975	(3)	(3)	(3)
	Massachusetts.....	52	6	492	2,299	376	767	1,610	4,914	9,555	603	(3)	(3)	(3)
	Middle Atlantic....	318	71	4,471	19,952	3,381	6,792	13,646	39,342	86,007	5,126	(3)	(3)	(3)
	New York.....	99	25	1,522	7,249	1,122	2,272	4,925	14,599	29,079	1,106	(3)	(3)	(3)
	New Jersey.....	62	15	1,045	4,820	741	1,526	2,965	10,184	24,376	665	(3)	(3)	(3)
	Pennsylvania.....	157	31	1,904	7,883	1,518	2,994	5,756	14,559	32,552	3,355	(3)	(3)	(3)
	East North Central	482	62	5,286	26,049	3,768	7,412	15,841	46,012	104,047	5,751	(3)	(3)	(3)
	Ohio.....	117	22	1,575	7,760	1,183	2,463	5,166	13,164	30,491	1,776	(3)	(3)	(3)
	Indiana.....	65	6	714	3,528	427	843	1,641	5,068	13,263	575	(3)	(3)	(3)
	Illinois.....	83	9	780	3,861	593	1,130	2,599	7,500	15,510	1,318	(3)	(3)	(3)
	Michigan.....	139	15	1,358	6,319	973	1,783	3,811	11,714	26,640	1,133	(3)	(3)	(3)
	Wisconsin.....	78	10	859	4,581	592	1,193	2,624	8,566	18,143	949	(3)	(3)	(3)
	West North Central	176	26	1,876	8,833	1,356	2,812	5,307	16,410	33,974	2,466	(3)	(3)	(3)
	Minnesota.....	60	7	526	2,601	399	760	1,641	4,593	8,911	914	(3)	(3)	(3)
	Iowa.....	32	7	404	1,896	288	611	1,155	3,164	7,325	667	(3)	(3)	(3)
	Missouri.....	42	5	413	1,775	302	581	991	3,370	7,267	(4)	(3)	(3)	(3)
	South Dakota.....	8	2	100	483	76	194	327	964	1,668	(4)	(3)	(3)	(3)
	Nebraska.....	9	3	187	1,019	102	278	492	1,929	3,942	(4)	(3)	(3)	(3)
	Kansas.....	16	2	168	719	127	257	433	1,292	2,896	(4)	(3)	(3)	(3)
	South Atlantic.....	302	90	5,023	17,353	3,562	7,419	10,698	37,142	87,389	4,116	(3)	(3)	(3)
	Virginia.....	40	18	674	2,232	502	979	1,353	4,255	11,061	(4)	(3)	(3)	(3)
	West Virginia....	28	3	338	1,114	219	423	674	1,838	4,516	(4)	(3)	(3)	(3)
	North Carolina..	59	16	856	2,591	614	1,256	1,551	5,105	13,253	719	(3)	(3)	(3)
	South Carolina..	21	6	250	675	190	377	434	1,248	2,733	(4)	(3)	(3)	(3)
	Georgia.....	37	9	516	1,522	368	743	962	3,528	7,716	(4)	(3)	(3)	(3)
	East South Central	135	18	1,366	4,152	991	1,802	2,511	8,971	19,583	1,287	(3)	(3)	(3)
	Tennessee.....	50	7	566	1,585	420	684	50	3,566	7,339	(4)	(3)	(3)	(3)
	Alabama.....	27	8	375	1,306	266	519	726	2,618	5,987	(4)	(3)	(3)	(3)
	West South Central	75	17	1,203	4,701	877	1,829	2,726	9,126	18,405	1,122	(3)	(3)	(3)
	Louisiana.....	10	2	183	615	156	321	467	1,448	2,807	(4)	(3)	(3)	(3)
	Texas.....	43	11	745	3,084	500	1,076	1,529	5,350	11,257	758	(3)	(3)	(3)
	Mountain.....	75	22	1,193	5,299	867	1,657	3,370	10,841	20,501	1,259	(3)	(3)	(3)
	Idaho.....	9	6	232	1,038	161	331	738	2,352	3,567	(4)	(3)	(3)	(3)
	New Mexico.....	12	6	259	1,011	200	381	610	2,025	4,244	(4)	(3)	(3)	(3)
	Arizona.....	7	2	240	1,292	156	296	700	2,857	5,038	(4)	(3)	(3)	(3)
	Utah.....	9	3	126	461	104	208	366	667	1,687	(4)	(3)	(3)	(3)
	Pacific.....	127	18	1,290	6,576	858	1,670	4,013	12,995	24,676	688	(3)	(3)	(3)
	California.....	85	13	958	4,954	648	1,294	3,091	10,302	18,468	(4)	(3)	(3)	(3)
3272	Concrete products, total.....	23,455	616	46,182	199,883	36,183	73,436	141,319	390,378	718,543	44,232	(3)	(3)	(3)
	New England.....	153	23	1,627	7,866	1,271	2,615	5,608	14,697	27,857	1,372	(3)	(3)	(3)
	Massachusetts....	59	9	690	3,351	541	1,144	2,458	6,025	11,421	502	(3)	(3)	(3)
	Rhode Island.....	12	2	115	568	91	192	445	1,149	1,795	(4)	(3)	(3)	(3)
	Connecticut.....	48	7	520	2,725	397	826	1,734	4,362	8,897	(4)	(3)	(3)	(3)
	Middle Atlantic....	468	94	6,769	31,051	5,002	10,359	21,071	59,521	107,158	6,449	(3)	(3)	(3)
	New York.....	184	40	2,404	11,202	1,924	3,829	8,302	20,197	37,903	2,743	(3)	(3)	(3)
	New Jersey.....	79	26	2,024	9,773	1,253	2,699	5,410	20,083	34,671	1,108	(3)	(3)	(3)
	Pennsylvania.....	205	28	2,341	10,076	1,825	3,831	7,359	19,241	34,584	2,598	(3)	(3)	(3)
	East North Central	845	111	9,396	47,635	7,401	15,026	33,418	91,081	161,214	10,197	(3)	(3)	(3)
	Ohio.....	216	29	2,821	14,207	2,198	4,439	9,568	25,035	44,032	2,326	(3)	(3)	(3)
	Indiana.....	149	15	1,585	6,820	1,250	2,349	4,833	12,495	21,680	2,024	(3)	(3)	(3)
	Illinois.....	170	36	2,344	12,670	1,878	3,920	9,290	25,388	46,160	2,623	(3)	(3)	(3)
	Michigan.....	201	20	1,781	9,127	1,389	2,921	6,329	18,904	33,771	2,020	(3)	(3)	(3)
	Wisconsin.....	109	11	865	4,811	686	1,397	3,398	9,259	15,571	1,204	(3)	(3)	(3)
	West North Central	370	53	4,181	16,202	3,390	6,489	11,581	35,045	64,268	5,286	(3)	(3)	(3)
	Minnesota.....	107	19	1,428	6,017	1,159	2,296	4,284	13,529	24,499	1,206	(3)	(3)	(3)
	Iowa.....	99	8	763	3,133	630	1,262	2,290	6,374	11,249	710	(3)	(3)	(3)
	Missouri.....	90	14	899	3,617	683	1,259	2,501	6,652	11,911	2,128	(3)	(3)	(3)
	North Dakota....	10	3	154	540	137	232	464	1,255	3,502	(4)	(3)	(3)	(3)
	Nebraska.....	17	2	398	683	367	620	502	1,956	4,007	(4)	(3)	(3)	(3)
	South Atlantic.....	620	146	9,573	35,109	7,629	15,988	24,831	67,330	128,511	8,320	(3)	(3)	(3)
	Maryland.....	57	11	933	3,865	756	1,476	2,727	9,532	16,586	1,699	(3)	(3)	(3)
	Virginia.....	65	19	1,288	5,131	1,039	2,188	3,528	10,390	20,330	779	(3)	(3)	(3)
	West Virginia....	19	3	274	1,094	230	445	827	1,949	3,834	(4)	(3)	(3)	(3)
	North Carolina..	69	15	1,034	3,450	815	1,725	2,343	6,611	13,010	810	(3)	(3)	(3)
	South Carolina..	41	10	626	1,993	497	986	1,415	5,254	9,793	753	(3)	(3)	(3)
	Georgia.....	96	20	1,106	3,810	884	1,673	2,420	7,843	13,932	934	(3)	(3)	(3)
	Florida.....	259	65	4,167	15,341	3,303	7,305	11,245	24,934	49,123	2,979	(3)	(3)	(3)
	East South Central	204	41	2,801	9,292	2,294	4,613	6,737	23,084	40,058	2,404	(3)	(3)	(3)
	Tennessee.....	60	12	1,043	3,522	861	1,798	2,430	8,162	13,957	827	(3)	(3)	(3)
	Alabama.....	77	16	1,015	3,257	802	1,547	2,351	7,696	13,235	1,136	(3)	(3)	(3)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947		
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number	
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
3273	Concrete products, nec—Continued														
	West South Central	303	61	4,388	15,355	3,504	6,943	11,097	32,638	62,939	3,565	(3)	(3)	(3)	
	Arkansas.....	22	2	223	653	188	349	517	1,587	2,644	(4)	(3)	(3)	(3)	
	Louisiana.....	72	10	872	3,042	742	1,467	2,390	6,608	12,141	728	(3)	(3)	(3)	
	Oklahoma.....	27	5	312	1,008	242	501	735	2,484	4,401	(4)	(3)	(3)	(3)	
	Texas.....	182	44	2,981	10,652	2,332	4,626	7,455	21,959	43,753	2,556	(3)	(3)	(3)	
	Mountain.....	136	23	1,721	7,660	1,373	2,746	5,895	13,343	23,962	1,760	(3)	(3)	(3)	
	Idaho.....	11	5	250	969	173	340	644	2,093	3,665	(4)	(3)	(3)	(3)	
	Colorado.....	44	7	512	2,215	414	839	1,689	3,029	6,081	791	(3)	(3)	(3)	
	Arizona.....	23	4	294	1,526	255	511	1,268	2,513	4,616	(4)	(3)	(3)	(3)	
	Utah.....	18	6	468	2,133	365	743	1,614	4,123	6,295	(4)	(3)	(3)	(3)	
	Pacific.....	356	64	5,726	29,713	4,319	8,657	21,081	53,639	102,576	4,879	(3)	(3)	(3)	
	Washington.....	76	8	1,011	5,722	801	1,607	3,955	8,399	17,862	681	(3)	(3)	(3)	
	Oregon.....	40	6	509	2,681	396	877	2,043	5,780	11,397	(4)	(3)	(3)	(3)	
	California.....	240	50	4,206	21,310	3,122	6,173	15,083	39,460	73,317	3,965	(3)	(3)	(3)	
		Ready-mixed concrete, total....	3,647	944	61,890	301,607	44,055	88,084	200,977	676,062	1,681,926	70,990	(5)	(5)	(5)
		New England.....	127	43	2,371	12,960	1,608	3,311	8,242	31,931	66,742	2,517	(5)	(5)	(5)
		Maine.....	12	5	254	963	208	387	669	1,874	4,258	(4)	(5)	(5)	(5)
		New Hampshire....	12	1	107	460	89	157	376	1,020	2,895	(4)	(5)	(5)	(5)
		Massachusetts....	47	22	1,014	6,278	666	1,467	3,890	17,203	34,021	1,174	(5)	(5)	(5)
		Rhode Island.....	12	3	156	804	109	241	578	1,722	4,504	(4)	(5)	(5)	(5)
		Connecticut.....	40	12	807	4,234	509	1,008	2,552	9,682	20,129	838	(5)	(5)	(5)
		Middle Atlantic...	423	121	8,265	43,985	5,893	12,018	29,535	97,950	236,380	9,524	(5)	(5)	(5)
		New York.....	169	42	3,128	18,201	2,238	4,479	11,795	37,933	97,063	3,547	(5)	(5)	(5)
		New Jersey.....	88	29	1,942	10,430	1,395	2,966	7,322	23,977	52,217	2,007	(5)	(5)	(5)
		Pennsylvania....	166	50	3,195	15,354	2,260	4,573	10,418	36,040	87,100	3,968	(5)	(5)	(5)
		East North Central	838	199	12,190	67,935	8,504	16,877	43,908	145,322	377,021	14,284	(5)	(5)	(5)
		Ohio.....	216	53	3,567	19,586	2,442	4,880	12,617	43,149	106,581	4,153	(5)	(5)	(5)
		Indiana.....	123	31	1,826	9,511	1,306	2,474	6,193	18,235	43,683	2,189	(5)	(5)	(5)
		Illinois.....	204	47	2,953	17,730	2,106	4,326	11,915	43,277	121,416	4,143	(5)	(5)	(5)
		Michigan.....	187	42	2,507	13,909	1,696	3,414	8,421	27,877	68,973	2,151	(5)	(5)	(5)
		Wisconsin.....	108	26	1,337	7,199	954	1,783	4,762	14,784	36,568	1,648	(5)	(5)	(5)
		West North Central	425	73	5,867	27,271	4,231	8,271	18,659	69,188	157,992	7,650	(5)	(5)	(5)
		Iowa.....	110	10	994	4,422	689	1,319	2,886	11,540	26,240	1,602	(5)	(5)	(5)
		Missouri.....	103	23	2,154	10,257	1,582	3,055	7,384	25,264	53,826	1,532	(5)	(5)	(5)
		South Dakota....	15	2	152	666	107	219	398	1,532	3,594	(4)	(5)	(5)	(5)
		Kansas.....	65	13	848	4,143	672	1,414	3,102	10,824	26,244	1,318	(5)	(5)	(5)
		South Atlantic....	442	154	9,737	38,494	7,016	14,151	25,531	88,512	231,176	9,427	(5)	(5)	(5)
		Delaware.....	11	5	297	1,155	200	277	590	3,152	6,467	(4)	(5)	(5)	(5)
		Maryland.....	40	15	791	3,832	462	905	1,835	6,302	20,894	585	(5)	(5)	(5)
		District of Columbia.....	4	4	366	1,991	307	690	1,484	2,754	10,798	(4)	(5)	(5)	(5)
		Virginia.....	61	16	1,267	5,558	1,034	2,362	4,313	14,938	33,349	1,051	(5)	(5)	(5)
		North Carolina..	67	15	1,174	3,549	961	1,648	2,714	9,133	21,639	1,168	(5)	(5)	(5)
		South Carolina..	37	9	501	1,685	372	768	1,180	4,612	12,567	(4)	(5)	(5)	(5)
		Florida.....	145	60	3,696	14,249	2,458	5,115	9,089	35,227	92,528	4,333	(5)	(5)	(5)
		East South Central	225	45	3,397	12,709	2,447	5,051	8,439	30,188	75,062	3,780	(5)	(5)	(5)
		Kentucky.....	65	8	836	3,333	570	1,061	2,212	6,450	17,023	855	(5)	(5)	(5)
	Tennessee.....	61	16	940	3,986	686	1,685	2,694	10,654	25,896	926	(5)	(5)	(5)	
	Alabama.....	50	13	872	3,100	648	1,265	2,117	8,088	19,540	797	(5)	(5)	(5)	
	Mississippi.....	49	8	749	2,290	543	1,040	1,416	4,996	12,603	1,202	(5)	(5)	(5)	
	West South Central	383	99	7,074	29,988	5,217	11,034	20,818	71,093	188,375	8,422	(5)	(5)	(5)	
	Oklahoma.....	69	9	978	4,196	792	1,591	3,444	9,649	26,000	1,066	(5)	(5)	(5)	
	Texas.....	213	64	3,967	17,226	2,794	6,079	11,122	42,109	113,362	5,228	(5)	(5)	(5)	
	Mountain.....	216	53	3,321	16,851	2,417	4,845	11,504	35,976	84,326	4,428	(5)	(5)	(5)	
	Montana.....	24	1	162	680	134	224	570	1,404	3,106	(4)	(5)	(5)	(5)	
	Idaho.....	25	4	270	1,277	212	419	920	2,576	5,896	(4)	(5)	(5)	(5)	
	Wyoming.....	18	1	171	740	140	235	578	1,645	3,948	(4)	(5)	(5)	(5)	
	Colorado.....	41	12	626	3,276	501	968	2,496	7,996	20,594	618	(5)	(5)	(5)	
	New Mexico.....	28	8	498	2,232	362	709	1,390	4,256	11,151	826	(5)	(5)	(5)	
	Arizona.....	34	11	843	4,905	538	1,171	2,982	10,188	20,400	1,119	(5)	(5)	(5)	
	Utah.....	36	12	576	2,728	402	850	1,837	6,068	13,769	648	(5)	(5)	(5)	
	Nevada.....	10	4	175	1,013	128	269	731	1,843	5,462	(4)	(5)	(5)	(5)	
	Pacific.....	568	157	9,668	51,414	6,722	12,526	34,341	105,902	264,852	10,958	(5)	(5)	(5)	
	Washington.....	79	26	1,664	9,271	1,208	2,140	6,043	18,171	37,465	1,408	(5)	(5)	(5)	
	Oregon.....	80	14	1,019	4,788	787	1,396	3,410	10,220	22,600	1,515	(5)	(5)	(5)	
	California.....	409	117	6,985	37,355	4,727	8,990	24,888	77,511	204,787	8,035	(5)	(5)	(5)	
3274	Lime, total.....	137	76	7,185	32,754	6,098	12,509	25,521	73,597	130,948	6,362	7,989	57,383	7,009	
	New England.....	6	5	330	1,659	268	603	1,169	2,688	4,811	445	(6)	(6)	(6)	
	Middle Atlantic...	25	8	1,154	5,550	930	2,007	4,220	10,907	19,910	545	(6)	(6)	(6)	
	East North Central	33	23	2,214	10,715	1,844	3,775	8,000	27,317	49,538	1,237	2,621	23,859	3,296	
	Ohio.....	16	13	1,787	8,593	1,465	2,944	6,280	21,523	36,976	1,056	(6)	(6)		
	West North Central	14	8	1,234	5,729	1,079	2,079	4,701	12,656	20,400	1,253	1,190	8,439		

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Lime—Continued													
	South.....	40	23	1,643	5,985	1,436	2,953	4,838	13,843	24,983	1,290	1,690	10,050	1,660
	Alabama.....	7	5	396	1,615	348	716	1,323	3,047	6,806	690	(6)	(6)	(6)
	Texas.....	6	5	435	1,472	389	836	1,198	3,906	5,748	(4)	(6)	(6)	(6)
	Mountain.....	11	5	290	1,473	258	529	1,225	2,818	5,469	(D)	319	1,710	200
	Pacific.....	8	4	320	1,643	283	563	1,368	3,368	5,837	(D)	279	1,786	418
3275	Gypsum products, total.....	126	63	11,502	57,978	9,447	20,606	45,412	218,042	364,947	9,376	10,966	161,898	7,472
	New England.....	4	4	493	2,389	369	779	1,668	6,670	12,491	1,476	437	5,743	(D)
	Middle Atlantic... New York.....	25	10	2,351	12,361	1,946	4,101	9,930	39,383	67,240	1,705	2,616	35,065	(D)
	East North Central	15	7	1,832	9,700	1,524	3,176	7,850	30,046	50,542	1,220	2,150	28,792	1,482
	Ohio.....	26	13	2,126	10,883	1,745	3,767	8,453	38,634	65,857	1,901	1,769	21,669	(6)
	West North Central	8	5	652	3,184	521	1,129	2,402	8,996	16,908	739	(6)	(6)	1,996
	South.....	10	6	1,322	6,473	1,106	2,442	5,249	28,289	41,862	1,066	1,382	22,664	(6)
	Texas.....	28	14	3,039	14,386	2,527	5,642	11,317	66,393	107,983	1,436	2,669	47,174	1,961
	Mountain.....	9	6	1,149	5,477	954	2,107	4,317	27,190	42,927	612	1,160	24,229	859
	Pacific.....	10	8	974	5,204	797	1,802	4,042	17,136	30,250	(D)	911	12,486	580
		23	8	1,197	6,282	957	2,973	4,753	21,537	39,264	(D)	1,179	17,094	809
3281	Cut stone and stone products, total.....	1,001	243	20,348	83,038	16,995	33,056	63,818	129,038	206,264	8,405	21,576	119,765	9,880
	New England.....	187	50	4,725	20,357	3,921	7,799	15,961	29,224	45,727	1,215	(6)	(6)	(6)
	Vermont.....	119	36	3,540	14,750	2,932	5,851	11,749	21,334	34,416	816	3,402	15,964	1,572
	Massachusetts...	36	6	704	3,562	569	1,107	2,559	5,051	7,069	(4)	(6)	(6)	(6)
	Middle Atlantic... New York.....	187	34	2,107	9,195	1,748	3,270	7,068	15,872	26,264	2,278	(6)	(6)	(6)
	New Jersey.....	93	12	856	4,493	682	1,235	3,275	7,936	14,214	1,594	(6)	(6)	(6)
	Pennsylvania.....	14	3	161	605	134	225	493	1,390	2,255	(4)	461	3,792	147
		80	19	1,090	4,097	932	1,810	3,300	6,546	9,795	(4)	1,448	9,962	535
	North Central....	276	92	7,368	32,663	6,088	12,170	24,448	49,411	78,554	2,704	7,774	46,175	2,784
	Indiana.....	50	29	2,361	10,058	2,104	3,918	8,326	14,251	20,513	1,193	2,834	17,140	1,006
	Illinois.....	44	8	634	3,595	486	1,004	2,545	5,020	8,923	(4)	591	6,469	474
	Wisconsin.....	35	9	575	2,749	470	925	2,047	3,611	6,503	(4)	1,729	9,603	421
	Minnesota.....	45	18	1,780	7,809	1,370	2,971	5,348	12,868	20,159	(4)	(6)	(6)	(6)
	Missouri.....	16	6	580	2,190	499	1,134	1,693	3,774	5,928	(4)	(6)	(6)	(6)
	South Dakota....	3	2	123	537	112	233	431	781	1,312	(4)	(6)	(6)	(6)
	Kansas.....	12	5	275	1,012	237	476	829	1,783	2,821	(4)	142	770	(D)
	South and West...	351	67	6,148	20,823	5,238	9,817	16,341	34,531	55,719	2,208	5,876	27,403	3,408
	Maryland.....	11	2	169	756	131	228	510	1,031	1,700	(4)	169	516	162
	North Carolina..	29	6	641	2,020	561	1,037	1,621	3,235	4,808	(4)	551	2,286	240
	South Carolina..	10	5	157	532	115	257	394	750	1,214	(4)	180	807	179
	Georgia.....	80	22	2,149	6,760	1,870	3,556	5,513	12,019	18,709	800	1,968	9,907	1,491
	Tennessee.....	26	6	845	2,719	748	1,453	2,155	4,233	6,439	(4)	881	3,175	260
	Alabama.....	12	3	339	1,214	303	608	1,017	2,397	3,167	(4)	478	2,119	61
	Texas.....	42	5	442	1,601	350	606	1,194	2,348	4,765	(4)	367	2,138	241
	California.....	39	5	386	1,939	284	530	1,366	3,288	6,134	(4)	301	1,814	200

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3271, Concrete Block and Brick: New England—Maine, 7 (20-99); New Hampshire, 8 (20-99); Vermont, 7 (20-99); Rhode Island, 8 (20-99); Connecticut, 24 (250-499); West North Central—North Dakota, 9 (20-99); South Atlantic—Delaware, 6 (100-249); Maryland, 26 (250-499); District of Columbia, 2 (100-249); Florida, 83 (1,716); East South Central—Kentucky, 41 (250-499); Mississippi, 17 (100-249); West South Central—Arkansas, 10 (20-99); Oklahoma, 12 (100-249); Mountain—Montana, 7 (20-99); Wyoming, 6 (20-99); Colorado, 22 (100-249); Nevada, 3 (20-99); Pacific—Washington, 22 (100-249); Oregon, 20 (20-99).

SIC 3272, Concrete Products: New England—Maine, 11 (100-249); New Hampshire, 17 (20-99); Vermont, 6 (20-99); West North Central—South Dakota, 13 (20-99); Kansas, 34 (250-499); South Atlantic—Delaware, 12 (100-249); District of Columbia, 2 (1-19); East South Central—Kentucky, 39 (250-499); Mississippi, 28 (250-499); Mountain—Montana, 12 (20-99); Wyoming, 9 (20-99); New Mexico, 13 (20-99); Nevada, 6 (20-99).

SIC 3273, Ready-Mixed Concrete: New England—Vermont, 4 (20-99); West North Central—Minnesota, 75 (1,000-2,499); North Dakota, 10 (20-99); Nebraska, 47 (250-499); South Atlantic—West Virginia, 23 (500-999); Georgia, 54 (1,000-2,499); West South Central—Arkansas, 33 (500-999); Louisiana, 68 (1,447).

SIC 3274, Lime: New England—Vermont, 1 (20-99); Massachusetts, 4 (100-249); Connecticut, 1 (20-99); Middle Atlantic—New York, 5 (20-99); New Jersey, 2 (1-19); Pennsylvania, 18 (1,000-2,499); East North Central—Indiana, 2 (1-19); Illinois, 5 (100-249); Michigan, 1 (20-99); Wisconsin, 9 (100-249); West North Central—Minnesota, 2 (20-99); Iowa, 1 (20-99); Missouri, 10 (1,000-2,499); South Dakota, 1 (1-19); South—Maryland, 3 (20-99); Virginia, 7 (250-499); West Virginia, 5 (20-99); Florida, 2 (20-99); Tennessee, 4 (100-249); Alabama, 7 (250-499); Mississippi, 1 (1-19); Arkansas, 1 (100-249); Louisiana, 2 (1-19); Oklahoma, 2 (100-249); Texas, 6 (250-499); Mountain—Montana, 2 (20-99); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 3 (20-99); Nevada, 3 (100-249); Pacific—Oregon, 2 (20-99); California, 6 (250-499).

SIC 3275, Gypsum Products: New England—New Hampshire, 1 (100-249); Vermont, 1 (20-99); Massachusetts, 1 (100-249); Connecticut, 1 (20-99); Middle Atlantic—New Jersey, 6 (100-249); Pennsylvania, 4 (250-499); East North Central—Indiana, 5 (500-999); Illinois, 6 (20-99); Michigan, 6 (500-999); Wisconsin, 1 (1-19); West North Central—Iowa, 5 (1,000-2,499); Missouri, 1 (1-19); Nebraska, 1 (1-19); Kansas, 3 (250-499); South—Maryland, 1 (100-249); District of Columbia, 2 (1-19); Virginia, 2 (500-999); Georgia, 2 (250-499); Florida, 4 (250-499); Tennessee, 3 (1-19); Arkansas, 1 (1-19); Louisiana, 2 (250-499); Oklahoma, 2 (250-499); Mountain—Montana, 1 (20-99); Colorado, 4 (20-99); Arizona, 1 (100-249); Utah, 2 (250-499); Nevada, 2 (250-499); Pacific—Washington, 2 (100-249); Oregon, 2 (1-19); California, 19 (1,000-2,499).

SIC 3281, Cut Stone and Stone Products: New England—Maine, 6 (100-249); New Hampshire, 5 (100-249); Rhode Island, 7 (20-99); Connecticut, 14 (20-99); North Central—Ohio, 33 (500-999); Michigan, 25 (100-249); Iowa, 5 (20-99); North Dakota, 1 (1-19); Nebraska, 7 (20-99); South and West—Delaware, 4 (1-19); District of Columbia, 1 (1-19); Virginia, 12 (250-499); West Virginia, 2 (1-19); Florida, 12 (20-99); Kentucky, 8 (20-99); Mississippi, 6 (100-249); Arkansas, 10 (20-99); Louisiana, 3 (20-99); Oklahoma, 9 (20-99); Montana, 1 (1-19); Idaho, 4 (1-19); Colorado, 8 (20-99); New Mexico, 2 (1-19); Arizona, 4 (20-99); Utah, 5 (1-19); Washington, 6 (20-99); Oregon, 5 (20-99).

<sup>2</sup>See footnote 8 table 1.<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report). Comparable data are shown for Industries 3271, Concrete Block and Brick; and 3272, Concrete Products, NEC, combined in table 2A.<sup>4</sup>Less than \$500 thousand.<sup>5</sup>See footnote 10 table 1.<sup>6</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 2A—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3271	Concrete products, total.....	25,270	963	69,597	300,629	53,063	107,328	204,250	585,115	1,142,119	70,375	60,410	396,344	46,821
	New England.....	260	35	2,686	13,055	2,016	4,157	8,789	24,171	46,948	2,367	2,237	16,025	1,475
	Maine.....	19	4	212	845	150	300	548	2,310	4,444	(3)	122	647	59
	Massachusetts...	111	15	1,182	5,650	917	1,911	4,068	10,939	20,976	1,105	1,081	7,689	759
	Rhode Island....	20	3	190	986	135	281	637	1,695	3,045	(3)	196	1,430	119
	Middle Atlantic....	789	166	11,304	51,300	8,432	17,251	34,950	99,352	194,803	11,609	10,153	72,212	7,413
	New York.....	284	65	3,928	18,472	3,048	6,104	13,248	34,858	67,157	3,850	3,369	24,116	2,322
	New Jersey.....	141	41	3,069	14,593	1,994	4,225	8,375	30,267	59,047	1,773	2,722	22,885	1,951
	Pennsylvania....	364	60	4,307	18,235	3,390	6,922	13,327	34,227	68,599	5,986	4,062	25,209	3,140
	East North Central	1,328	175	14,724	73,880	11,199	22,511	49,357	137,478	265,792	15,946	13,573	98,840	9,861
	Ohio.....	334	52	4,418	22,083	3,391	6,921	14,771	38,331	74,788	4,104	4,157	28,747	2,760
	Indiana.....	214	21	2,299	10,348	1,677	3,192	6,474	17,563	34,943	2,599	2,109	13,288	1,450
	Illinois.....	253	45	3,124	16,531	2,471	5,050	11,889	32,888	61,670	3,941	2,247	18,825	1,869
	Michigan.....	340	36	3,159	15,526	2,382	4,758	10,201	30,871	60,677	3,149	3,449	25,270	2,525
	Wisconsin.....	187	21	1,724	9,392	1,278	2,590	6,022	17,825	33,714	2,153	1,610	12,708	1,257
	West North Central	548	81	6,152	25,529	4,820	9,475	17,220	52,305	100,032	7,804	6,101	41,187	4,521
	Minnesota.....	168	27	1,986	8,822	1,576	3,095	6,021	18,477	34,237	2,126	1,981	12,169	1,512
	Iowa.....	131	15	1,167	5,029	918	1,873	3,445	9,538	18,574	1,377	1,237	8,208	856
	Missouri.....	132	19	1,312	5,392	985	1,840	3,492	10,022	19,178	2,412	1,176	7,442	1,042
	North Dakota....	19	3	232	880	199	363	732	2,353	5,467	(3)	175	1,191	113
	Nebraska.....	27	6	648	1,992	525	1,033	1,230	4,380	8,912	(3)	599	5,401	360
	South Atlantic....	928	239	14,781	53,002	11,345	23,705	35,895	105,310	218,372	15,559	11,964	65,761	8,833
	Delaware.....	18	7	244	761	162	298	518	1,743	4,027	(2)	206	1,087	166
	Virginia.....	106	37	1,967	7,378	1,545	3,174	4,893	14,669	31,464	1,263	1,827	10,400	1,510
	West Virginia...	47	6	612	2,208	449	868	1,501	3,787	8,350	(3)	668	3,111	739
	North Carolina..	129	32	1,951	6,240	1,481	3,089	4,034	12,144	27,139	1,534	(4)	(4)	(4)
	South Carolina..	62	16	876	2,668	687	1,363	1,849	6,502	12,526	823	884	4,679	722
	Georgia.....	136	31	1,733	5,642	1,344	2,588	3,584	11,748	23,124	1,460	(3)	(4)	(4)
	East South Central	342	60	4,246	13,739	3,324	6,510	9,347	32,835	60,765	3,751	3,945	23,036	3,624
	Tennessee.....	112	19	1,625	5,144	1,294	2,504	3,421	11,890	21,464	1,357	1,456	8,379	1,309
	Alabama.....	105	25	1,453	4,821	1,094	2,139	3,145	10,932	20,178	1,505	1,365	7,769	1,163
	West South Central	378	78	5,591	20,056	4,381	8,772	13,823	41,764	81,344	4,687	4,269	24,230	3,324
	Louisiana.....	82	12	1,055	3,657	898	1,788	2,857	8,056	14,948	766	966	4,723	655
	Texas.....	225	55	3,726	13,736	2,832	5,702	8,984	27,309	55,010	3,314	2,567	15,142	1,882
	Mountain.....	211	45	2,914	12,959	2,240	4,403	9,265	24,184	44,463	3,019	2,076	12,649	1,814
	Idaho.....	20	11	482	2,007	334	671	1,382	4,445	7,232	(3)	(4)	(4)	(4)
	Arizona.....	30	6	534	2,818	411	807	1,968	5,370	9,654	560	533	3,035	517
	Utah.....	27	9	594	2,594	469	951	1,980	4,790	7,982	(3)	401	2,440	324
	Pacific.....	486	84	7,199	37,109	5,306	10,544	25,604	67,716	129,600	5,633	6,088	42,399	5,956
	California.....	326	63	5,182	26,366	3,778	7,482	18,206	49,862	91,999	4,488	4,499	32,446	4,620

Note: Detailed figures may not add to the totals because of independent rounding. See footnote 9 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3272, Concrete Products: New England—New Hampshire, 25 (100-249); Vermont, 13 (100-249); Connecticut, 72 (500-999); West North Central—South Dakota, 21 (100-249); Kansas, 50 (500-999); South Atlantic—Maryland 84 (1,360); District of Columbia, 4 (100-249); Florida, 342 (5,883); East South Central—Kentucky, 80 (500-999); Mississippi, 45 (500-999); West South Central—Arkansas, 32 (250-499); Oklahoma, 39 (500-999); Mountain—Montana, 19 (100-249); Wyoming, 15 (20-94); Colorado, 66 (500-999); New Mexico, 25 (250-499); Nevada, 9 (20-99); Pacific—Washington, 100 (1,000-2,499); Oregon, 60 (500-999).

<sup>2</sup>See footnote 8 table 1.

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

Item	Concrete block and brick (SIC 3271) <sup>3</sup>	Concrete products (SIC 3272) <sup>3</sup>	Ready-mixed concrete (SIC 3273)	Lime (SIC 3274)	Gypsum products (SIC 3275)	Cut stone and stone products (SIC 3281)
	All establishments	All establishments	All establishments	All establishments	All establishments	All establishments
Primary product specialization ratio <sup>1</sup> .....	90	94	92	83	95	95
Coverage ratio <sup>2</sup> .....	83	94	97	95	98	97
Number of establishments, total.....	1,796	3,455	3,647	137	126	1,001
With 1-19 employees.....	1,460	2,839	2,703	61	63	758
With 20-99 employees.....	324	566	883	56	14	210
With 100 employees or more.....	12	50	61	20	49	33
Proprietors and working partners.....Number..	1,351	2,611	1,801	47	58	784
All employees:						
Number (average for the year).....	22,766	46,182	61,890	7,185	11,502	20,348
Payroll.....\$1,000..	98,103	199,883	301,607	32,754	57,978	83,038
Production workers:						
Number (average for the year).....	16,404	36,183	44,055	6,098	9,447	16,995
March.....	14,496	32,345	39,619	6,085	9,063	16,143
May.....	17,264	36,932	44,683	6,024	9,251	17,444
August.....	18,067	39,074	45,868	6,128	9,725	17,400
November.....	16,952	37,361	45,857	6,156	9,771	17,237
Man-hours.....1,000..	32,933	73,436	88,084	12,509	20,606	33,056
January-March.....do....	6,726	15,746	18,370	3,091	4,821	7,526
April-June.....do....	8,658	18,744	22,588	3,068	4,886	8,635
July-September.....do....	9,242	19,984	23,209	3,141	5,550	8,512
October-December.....do....	8,307	18,962	23,917	3,209	5,349	8,383
Wages.....\$1,000..	61,292	141,319	200,977	25,521	45,412	63,818
Cost of materials, etc., total.....do....	224,333	331,525	1,005,585	57,514	146,609	77,072
Materials, parts, containers, and supplies consumed.....do....	167,862	290,482	883,921	32,569	121,248	63,794
Cost of resales.....do....	46,268	24,321	89,033	2,234	9,825	5,925
Fuels consumed.....do....	5,218	6,794	17,650	18,504	9,741	1,809
Electricity purchased.....do....	3,331	3,913	6,703	3,608	5,593	2,104
Contract work.....do....	1,654	6,015	8,278	599	202	3,440
Value of shipments (including resales), total.....do....	413,670	718,543	1,681,926	130,948	364,947	206,264
Value of resales.....do....	59,482	29,152	110,875	2,222	12,371	7,738
Value added by manufacture, adjusted...do....	190,355	390,378	676,062	73,597	218,042	129,038
Manufacturers' inventories:						
Beginning of year, total.....do....	45,502	108,011	57,944	12,362	25,027	30,179
Finished products.....do....	36,290	68,931	31,877	2,432	5,700	12,356
Work-in-process.....do....	1,181	8,951	1,340	1,847	1,763	8,005
Materials, supplies, fuel, etc.....do....	8,031	30,129	24,727	8,083	17,564	9,818
End of year, total.....do....	46,581	109,820	59,794	12,040	24,391	29,945
Finished products.....do....	37,386	73,960	31,372	2,390	5,803	11,672
Work-in-process.....do....	1,103	7,282	1,566	2,052	1,364	8,535
Materials, supplies, fuel, etc.....do....	8,092	28,578	26,856	7,598	17,224	9,738
Expenditures for plant and equipment, total.....do....	23,750	46,778	76,668	6,747	9,414	8,942
New, total.....do....	22,790	44,232	70,990	6,362	9,376	8,405
New structures and additions to plant.....do....	5,585	14,257	21,684	2,060	1,579	2,027
New machinery and equipment.....do....	17,205	29,975	49,306	4,302	7,797	6,378
Used plant and equipment.....do....	960	2,546	6,099	385	38	537

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>See footnote 8 table 1.



## CONCRETE, GYPSUM, STONE, AND PLASTER PRODUCTS

32D-11

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3271	Concrete block and brick:											
	Number of establishments.....	1,796	661	393	406	270	54	11	1	...	...	...
	All employees:											
	Number.....	22,766	1,383	2,594	5,633	7,982	3,431	<u>1,743</u>	(D)	...	...	...
	Payroll.....\$1,000..	98,103	4,188	9,039	23,527	35,486	16,976	<u>8,887</u>	(D)	...	...	...
	Value added, adjusted..do....	190,355	8,268	19,519	47,716	67,826	33,605	<u>13,421</u>	(D)	...	...	...
	Value of shipments.....do....	413,670	21,027	43,634	106,857	145,595	67,937	<u>28,620</u>	(D)	...	...	...
	Capital expend., new...do....	22,790	3,668	3,397	5,551	5,581	3,115	<u>1,478</u>	(D)	...	...	...
3272	Concrete products:											
	Number of establishments.....	13,455	1,590	684	565	438	128	44	5	1	...	...
	All employees:											
	Number.....	46,182	3,384	4,544	7,781	13,523	8,423	6,221	2,306	(D)	...	...
	Payroll.....\$1,000..	199,883	10,880	16,553	32,647	59,590	39,022	29,146	<u>12,045</u>	(D)	...	...
	Value added, adjusted..do....	390,378	21,420	32,079	60,751	119,830	77,976	60,171	<u>18,151</u>	(D)	...	...
	Value of shipments.....do....	718,543	43,406	57,762	112,107	212,829	144,209	111,193	<u>37,037</u>	(D)	...	...
	Capital expend., new...do....	44,232	7,541	3,790	6,364	13,043	6,628	5,574	<u>1,292</u>	(D)	...	...
3273	Ready-mixed concrete:											
	Number of establishments.....	3,647	910	886	907	731	152	56	5	...	...	...
	All employees:											
	Number.....	61,890	2,266	6,067	12,406	21,597	9,868	8,036	1,650	...	...	...
	Payroll.....\$1,000..	301,607	9,554	26,139	57,479	108,288	51,118	40,778	8,251	...	...	...
	Value added, adjusted..do....	676,062	34,025	66,051	124,266	232,424	108,738	88,563	21,995	...	...	...
	Value of shipments.....do....	1,681,926	82,871	179,359	348,941	589,154	251,928	194,432	35,241	...	...	...
	Capital expend., new...do....	70,990	8,595	11,329	16,942	18,031	8,049	7,148	896	...	...	...
3274	Lime:											
	Number of establishments.....	137	33	14	14	28	28	17	2	1	...	...
	All employees:											
	Number.....	7,185	61	93	194	875	1,981	2,532	<u>1,449</u>	(D)	...	...
	Payroll.....\$1,000..	32,754	215	300	828	4,285	9,144	11,640	<u>6,342</u>	(D)	...	...
	Value added, adjusted..do....	73,597	521	709	1,083	9,087	21,761	22,846	<u>17,590</u>	(D)	...	...
	Value of shipments.....do....	130,948	937	1,341	3,103	18,553	40,917	36,820	<u>29,277</u>	(D)	...	...
	Capital expend., new...do....	6,362	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1,487	1,891	2,192	( <sup>2</sup> )	(D)	...	...
3275	Gypsum products:											
	Number of establishments.....	126	41	12	10	5	9	36	13	...	...	...
	All employees:											
	Number.....	11,502	74	71	126	182	635	<u>10,414</u>	(D)	...	...	...
	Payroll.....\$1,000..	57,978	293	282	571	989	3,082	<u>52,761</u>	(D)	...	...	...
	Value added, adjusted..do....	218,042	1,162	827	1,386	2,940	9,742	<u>201,985</u>	(D)	...	...	...
	Value of shipments.....do....	364,947	1,852	1,639	2,598	6,539	21,051	<u>331,268</u>	(D)	...	...	...
	Capital expend., new...do....	9,376	579	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1,384	<u>7,203</u>	(D)	...	...	...
3281	Cut stone and stone products:											
	Number of establishments.....	1,001	364	195	199	164	46	24	6	2	1	...
	All employees:											
	Number.....	20,348	829	1,321	2,692	4,826	3,119	3,273	2,051	<u>2,237</u>	(D)	...
	Payroll.....\$1,000..	83,038	2,817	5,271	10,970	21,187	12,914	12,854	7,706	<u>9,319</u>	(D)	...
	Value added, adjusted..do....	129,038	6,499	8,722	17,382	32,523	19,082	22,188	11,544	<u>11,098</u>	(D)	...
	Value of shipments.....do....	206,264	12,376	16,371	32,508	52,620	28,074	32,633	15,523	<u>16,159</u>	(D)	...
	Capital expend., new...do....	8,405	2,228	1,090	2,134	894	585	552	539	( <sup>2</sup> )	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>See footnote 8 table 1.

<sup>2</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3271	Concrete block and brick.....1958..	413,670	314,695	34,645	64,330	90	379,068	314,695	64,373	83
3272	Concrete products.....1958..	718,543	622,162	38,868	57,513	94	661,142	622,162	38,980	94
3273	Ready-mixed concrete.....1958..	1,681,926	1,423,544	119,517	138,865	92	1,463,569	1,423,544	40,025	97
3274	Lime.....1958..	130,948	103,663	21,516	5,769	83	108,976	103,663	5,313	95
	.....1954..	112,854	91,476	17,399	3,979	84	93,941	91,476	2,465	97
3275	Gypsum products.....1958..	364,947	336,009	16,495	12,443	95	344,244	336,009	8,235	98
	.....1954..	295,564	268,010	13,909	13,645	95	273,458	268,010	5,448	98
3281	Cut stone and stone products....1958..	206,264	185,187	8,779	12,298	95	191,054	185,187	5,867	97
	.....1954..	191,494	165,107	12,056	14,331	93	166,768	165,107	1,661	99

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Class of products and miscellaneous receipts	Concrete block and brick (SIC 3271)	Concrete products (SIC 3272)	Ready-mixed concrete (SIC 3273)	Lime (SIC 3274)	Gypsum products (SIC 3275)	Cut-stone and stone products (SIC 3281)	Crushed and broken lime-stone (sub-industry 1422)	Common sand and gravel (sub-industry 1442)	Other industries	All industries
	Total shipments and receipts of the industry.....	413,670	718,543	1,681,926	130,948	364,947	206,264	xxx	xxx	xxx	xxx
327-328-	Concrete, gypsum, stone, and plaster products.....	344,226	657,323	1,471,229	103,772	336,521	185,454	xxx	xxx	xxx	xxx
32710	Concrete block and brick.....	314,695	25,917	34,418	(D)	...	...	161	1,938	(D)	379,068
32721	Concrete pipe.....	3,763	283,293	5,076	...	...	(D)	...	...	(D)	294,786
32722	Other precast and prestressed concrete products.....	12,715	263,191	6,832	...	512	220	...	...	3,626	287,096
32720	Concrete products, nec.....	2,348	75,678	995	...	...	(D)	...	...	(D)	79,260
32730	Ready-mixed concrete.....	10,639	9,018	1,423,544	...	...	...	6,593	8,470	<sup>1</sup> 5,305	1,463,569
32740	Lime.....	...	( <sup>2</sup> )	( <sup>2</sup> )	103,663	...	...	1,557	...	3,747	108,976
32751	Gypsum building materials.....	...	( <sup>2</sup> )	...	(D)	326,675	...	...	...	(D)	333,039
32752	Other gypsum products.....	...	...	...	...	6,244	...	...	...	360	6,604
32750	Gypsum products, nec.....	(D)	(D)	355	...	3,090	...	...	...	1,156	4,601
32811	Cut granite.....	...	(D)	...	...	...	87,667	...	...	(D)	87,906
32812	Cut limestone.....	...	...	...	(D)	...	35,018	...	...	(D)	35,073
32813	Cut marble and other cut stone products.	(D)	...	...	...	...	50,167	1,906	...	(D)	55,727
32810	Cut-stone and stone products, nec.....	...	...	...	...	...	12,335	...	...	( <sup>2</sup> )	12,348
	Other products.....	5,114	3,707	71,832	21,407	15,983	8,512	xxx	xxx	xxx	xxx
14222	Crushed and broken limestone.....	(D)	...	3,266	15,973	...	953	xxx	xxx	xxx	xxx
14292	Other crushed and broken, slate, marble, etc.....	(D)	...	5,525	...	...	956	xxx	xxx	xxx	xxx
14422	Common sand and gravel.....	1,389	1,234	41,972	...	...	...	xxx	xxx	xxx	xxx
29510	Paving mixtures and blocks.....	...	625	5,760	...	(D)	...	xxx	xxx	xxx	xxx
32410	Cement, hydraulic.....	( <sup>2</sup> )	(D)	2,210	(D)	...	...	xxx	xxx	xxx	xxx
32950	Minerals and earths.....	(D)	(D)	5,685	(D)	8,487	...	xxx	xxx	xxx	xxx
32990	Nonmetallic mineral products, nec.....	798	230	2,220	...	(D)	( <sup>2</sup> )	xxx	xxx	xxx	xxx
	Other secondary products.....	2,508	1,396	5,194	<sup>3</sup> 5,035	<sup>4</sup> 7,279	<sup>5</sup> 6,515	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	64,330	57,513	138,865	5,769	12,443	12,298	xxx	xxx	xxx	xxx
	Resales.....	59,482	29,152	110,875	2,222	12,371	7,738	xxx	xxx	xxx	xxx
	Other miscellaneous receipts.....	4,848	28,361	27,990	3,547	72	4,560	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>This figure includes \$3 million from Industry 2951, Paving Mixtures and Blocks.

<sup>2</sup>Less than \$100 thousand.

<sup>3</sup>Includes an amount between \$3 million and \$5 million for Industry 3297, Nonclay Refractories.

<sup>4</sup>Includes an amount between \$3 million and \$5 million for Industry 2851, Paints and Varnishes, and \$1 million for Industry 2852, Putty and Calking Compounds.

<sup>5</sup>Includes \$2 million for Industry 1412, Dimension Limestone; \$1 million for Industry 1419, Dimension Stone, NEC; and also \$1 million for Industry 1423, Crushed and Broken Granite.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers					
			1958		1954			
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)		
3271---	Concrete block and brick, total.....	.....	xxx	379,068	xxx	341,882		
	Block:							
3271011	Light-weight aggregate (cinder, expanded slag, etc.).....	1,000 blocks (8"x8"x16" equivalent)	{ 1,011,157 751,096	207,380	955,584	174,204		
3271015	Heavy-weight aggregate.....			141,720	651,530	116,406		
3271051	Brick.....	1,000 bricks	357,253	11,425	320,273	10,254		
3271000	Block and brick, nsk.....	.....	xxx	18,543	234,500	41,018		
3272---	Concrete products, total.....	.....	xxx	661,142	xxx	335,541		
32721--	Concrete pipe.....	.....	xxx	294,786	xxx	184,316		
3272111	Culvert pipe.....	1,000 tons..	3,686	103,050	2,274	54,790		
	Sewer pipe:							
3272121	Reinforced.....	..do.....	2,448	72,344	1,366	38,594		
3272125	Nonreinforced.....	..do.....	870	23,532	1,228	30,383		
3272131	Pressure pipe.....	..do.....	909	64,929	727	39,316		
3272141	Irrigation pipe:							
	Quantity reported.....	..do.....	357	7,414	377	6,224		
	Quantity not reported.....	.....	xxx	2,567	xxx	1,714		
3272198	Other concrete pipe (such as tile and conduits).....	.....	(NA)	20,950	xxx	13,295		
32722--	Other precast and prestressed concrete products.....	.....	xxx	287,096	xxx	151,225		
	Roof and floor units:							
3272211	Slabs and tile.....	1,000 sq.ft.	(NA)	52,071	74,814	29,503		
3272215	Joists and beams.....	.....	(NA)	31,180	(NA)	5,351		
3272221	Cast stone (products for architectural purposes such as window sills, lintels, ashlar, coping, posts, ornamental columns, interior facings, and other trim).....	.....	xxx	22,753	xxx	19,727		
	Burial vaults and boxes:							
3272233	Vaults.....	Number.....	681,437	41,168	} 581,003	28,449		
3272235	Boxes.....	..do.....	135,933	3,797				
3272241	Silo staves.....	..do.....	(NA)	6,173	xxx	6,408		
3272251	Laundry trays.....	..do.....	307,859	3,116	358,936	3,722		
3272298	Other products (such as piling, posts, and pales, crossing slabs, garden furniture, storage and septic tanks, catch basin covers, shower receptors, gravestones, and prefabricated housing units).....	.....	xxx	103,094	xxx	58,065		
3272200	Other concrete products, nsk.....	.....	xxx	23,744	xxx	...		
3272000	Concrete products, nsk.....	.....	xxx	279,260	xxx	...		
			1958					
			Total shipments including interplant transfers					
			Quantity		Value (\$1,000)			
3273011	Ready-mixed concrete, total: <sup>3</sup> .....	Cubic yards.	xxx		1,463,569			
	Quantity reported.....		72,933,700		944,492			
	Quantity not reported.....		xxx		519,077			
			Unit of measure	1958		1954		
				Total production (quantity)	Total shipments including inter-plant transfers		Total shipments including inter-plant transfers	
					Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3274---	Lime, total.....	.....	xxx	xxx	112,313	xxx	93,941	
3274011	Quicklime <sup>4</sup> .....	1,000 tons	(NA)	4,669	46,735	3,642	39,355	
3274051	Hydrated lime <sup>4</sup> .....	..do.....	1,855	1,813	27,560	1,805	22,328	
3274071	Dead-burned dolomite.....	..do.....	1,812	1,777	29,611	1,803	25,505	
3274098	Other lime.....	.....	xxx	xxx	1,503	xxx	677	
3274000	Lime, nsk.....	.....	xxx	xxx	3,567	xxx	2,299	
9512034	Cost of containers for lime products.....	.....	xxx	xxx	3,337	xxx	3,777	
			Unit of measure	1958		1954		
				Total shipments including interplant transfers		Total shipments including interplant transfers		
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
3275---	Gypsum products, total.....	.....	xxx	344,244	xxx	273,458		
3275111	Gypsum building materials, building plasters and prefabricated building materials.....	1,000 tons..	9,735	333,039	8,957	265,899		
3275211	Other gypsum products, industrial plasters.....	..do.....	289	6,604	284	5,750		
3275000	Gypsum products, nsk.....	.....	xxx	4,601	xxx	1,809		

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3281---	Cut-stone and stone products, total.....		xxx	191,054	xxx	166,768
32811--	Cut granite and granite products.....		xxx	87,906	xxx	67,510
3281101	Granite (including gneiss, syenite, diorite):					
	Dressed dimension stone (made in quarries), nsk:					
	Quantity reported.....	Short tons	450,199	25,752	(NA)	(NA)
	Quantity not reported.....		xxx	3,261		
3281111	Dressed dimension stone (not made in quarries):					
	Building stone.....		xxx	4,131	(NA)	(NA)
	Monumental stone.....		xxx	43,910	(NA)	(NA)
	Other granite products, such as paving blocks and curbing.....		xxx	3,044	(NA)	(NA)
3281100	Cut granite and granite products, nsk.....		xxx	7,808	(NA)	(NA)
32812--	Cut limestone and limestone products.....		xxx	35,073	xxx	40,017
3281201	Limestone (including dolomite, cement rock, marl, travertine, calcareous tufa):					
	Dressed dimension stone (made in quarries), nsk.....	Short tons	486,575	13,206	(NA)	(NA)
	Dressed dimension stone (not made in quarries):					
	Building stone.....		xxx	17,610	(NA)	(NA)
3281298	Other limestone products, such as flagging.....		xxx	1,814	(NA)	(NA)
3281200	Cut limestone and limestone products, nsk.....		xxx	2,443	(NA)	(NA)
32813--	Cut marble and other cut stone.....		xxx	55,727	xxx	48,774
3281301	Dressed dimension stone:					
	Marble (made in quarries), nsk.....	Short tons	96,185	12,252	(NA)	(NA)
	Building stone.....		xxx	10,961	(NA)	(NA)
	Monumental stone.....		xxx	2,703	(NA)	(NA)
3281341	Other marble products.....		xxx	8,032	(NA)	(NA)
3281398	Cut marble and marble products, nsk.....		xxx	2,693	(NA)	(NA)
3281310	Other dressed dimension stone, except marble, granite and limestone (made in quarries), nsk.....	Short tons	00,025	11,453	(NA)	(NA)
3281361	Slate, roofing, mill stock, and flagstone.....		xxx	2,121	(NA)	(NA)
3281371	Sandstone, basalt, and other dressed dimension stone products.....		xxx	3,906	(NA)	(NA)
3281397	Other cut-stone and stone products, nsk.....		xxx	1,606	(NA)	(NA)
3281000	Cut-stone and stone products, nsk.....		xxx	12,348	xxx	10,467

NA Not available.

<sup>1</sup>Some establishments (principally those with less than 6 employees), in reporting their shipments of concrete block did not specify the type. It is estimated that over 70 percent of this figure is heavy-weight aggregate block. Unit of measure 1,000 blocks (8"x8"x16" equivalent).

<sup>2</sup>See footnote 8 table 1.

<sup>3</sup>Ready-mixed concrete is included for the first time in Census of Manufactures for 1958. No comparable figures are available for earlier years.

<sup>4</sup>The 1958 data include production and shipments wherever made.

<sup>5</sup>Data include shipments only by establishments classified in manufacturing industries; 1954 shipments of these products by establishments classified in the Minerals Industries areas follows: quicklime, 167 thousand tons valued at \$2,464 thousand; hydrated lime, 68 thousand tons valued at \$855 thousand.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954
<b>Concrete pipe (32721):</b>			<b>Concrete pipe (32721)--</b>			<b>Concrete pipe (32721)--</b>		
United States, total:			Continued			Continued		
1958.....	294,786		East North Central.....	63,280	35,906	South Atlantic.....	43,574	25,489
1957.....	260,017		Ohio.....	19,898	13,114	Maryland.....	10,147	3,028
1956.....	255,512		Indiana.....	5,805	3,285	Virginia.....	6,402	4,242
1955.....	222,564		Illinois.....	17,479	7,267	North Carolina.....	5,251	3,498
1954.....	184,516		Michigan.....	15,991	9,615	South Carolina.....	6,515	5,307
1947.....	82,446		Wisconsin.....	4,107	2,624	Georgia.....	5,397	4,604
	1958 <sup>1</sup>	1954				Florida.....	7,382	3,441
New England.....	12,024	7,295	West North Central.....	23,740	21,456	East South Central.....	18,312	10,965
Massachusetts.....	5,134	3,372	Minnesota.....	7,736	5,797	Kentucky.....	2,890	1,133
Connecticut.....	3,885	( <sup>2</sup> )	Iowa.....	3,513	3,057	Tennessee.....	5,071	3,373
Middle Atlantic.....	34,785	23,086	Missouri.....	2,874	2,362	Alabama.....	6,183	4,041
New York.....	11,368	8,400	North Dakota.....	2,103	( <sup>2</sup> )	Mississippi.....	4,168	2,418
New Jersey.....	13,242	8,801	Kansas.....	4,674	( <sup>2</sup> )			
Pennsylvania.....	10,175	5,884						

See footnotes at end of table.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
Concrete pipe (32721)-- continued	1958 <sup>1</sup>	1954	Other precast and pre- stressed concrete products (32722)--Continued	1958 <sup>1</sup>	1954	Cut granite (32811)-- Continued	1958 <sup>1</sup>
West South Central.....	33,057	21,830	East South Central.....	14,676	7,583	East North Central.....	5,413
Arkansas.....	1,481	1,006	Kentucky.....	1,920	( <sup>3</sup> )	Ohio.....	1,188
Louisiana.....	5,787	2,420	Tennessee.....	6,417	3,064	Illinois.....	1,748
Oklahoma.....	2,451	1,676	Alabama.....	3,890	2,848	Wisconsin.....	1,536
Texas.....	23,538	16,728	Mississippi.....	2,449	( <sup>3</sup> )	West North Central.....	18,935
Mountain.....	11,639	4,687	West South Central.....	22,867	5,881	Minnesota.....	15,003
Idaho.....	1,943	( <sup>3</sup> )	Louisiana.....	5,192	2,097	Kansas.....	1,929
Colorado.....	1,948	( <sup>3</sup> )	Oklahoma.....	1,349	2,950	South Atlantic.....	15,778
New Mexico.....	1,086	( <sup>3</sup> )	Texas.....	15,533	( <sup>3</sup> )	North Carolina.....	2,540
Arizona.....	2,533	1,273	Mountain.....	7,572	1,997	South Carolina.....	1,172
Utah.....	2,503	( <sup>3</sup> )	Colorado.....	2,306	( <sup>3</sup> )	Georgia.....	11,312
Pacific.....	54,375	33,603	Arizona.....	1,526	( <sup>3</sup> )	East South Central.....	1,580
Washington.....	6,219	3,881	Utah.....	2,426	( <sup>3</sup> )	West South Central.....	3,109
Oregon.....	5,218	2,477	Pacific.....	23,448	10,800	Texas.....	2,406
California.....	42,958	27,245	Washington.....	4,674	2,335	Pacific.....	3,326
Other precast and pre- stressed concrete products (32722):	Value of shipments		Oregon.....	1,382	( <sup>3</sup> )	California.....	2,868
United States, total:			California.....	17,392	7,765	Cut marble and other cut stone products (32813):	
1958.....	287,096		Gypsum building materials (32751):	Value of shipments		United States, total.....	55,727
1957.....	272,248		United States, total.....	1958 <sup>1</sup>		New England.....	7,348
1956.....	215,536		Middle Atlantic.....	344,244		Vermont.....	6,720
1955.....	172,790		East North Central.....	63,739		Middle Atlantic.....	11,499
1954.....	151,225		Illinois.....	58,274		New York.....	6,211
1947.....	67,004		Michigan.....	1,624		Pennsylvania.....	5,029
New England.....	10,684	6,452	West North Central.....	19,178		East North Central.....	14,068
Maine.....	1,019	( <sup>3</sup> )	Iowa.....	37,055		Ohio.....	5,881
Massachusetts.....	4,445	3,110	West South Central.....	31,622		Indiana.....	1,450
Rhode Island.....	1,356	( <sup>3</sup> )	Texas.....	56,600		Illinois.....	4,072
Connecticut.....	3,453	1,884	Mountain.....	40,464		Michigan.....	1,799
Middle Atlantic.....	52,243	31,344	Pacific.....	28,619		West North Central.....	5,355
New York.....	19,082	10,042	California.....	36,621		Missouri.....	3,705
New Jersey.....	17,132	11,840	Cut granite (32811):	Value of shipments		South Atlantic.....	7,188
Pennsylvania.....	16,029	9,461	United States, total:			Virginia.....	1,015
East North Central.....	74,109	47,500	1958.....	87,906		Georgia.....	5,015
Ohio.....	17,151	14,285	1954.....	67,510		East South Central.....	7,177
Indiana.....	13,033	8,301	1947.....	40,453		Tennessee.....	5,654
Illinois.....	23,137	11,405	New England.....	33,739		Pacific.....	2,554
Michigan.....	11,107	8,248	New Hampshire.....	1,009		California.....	1,837
Wisconsin.....	9,681	5,260	Vermont.....	24,737			
West North Central.....	26,735	16,090	Massachusetts.....	5,552			
Minnesota.....	10,417	5,479	Middle Atlantic.....	5,499			
Iowa.....	5,011	5,189	New York.....	3,351			
Missouri.....	5,128	2,672					
Nebraska.....	2,716	( <sup>3</sup> )					
Kansas.....	1,916	1,320					
South Atlantic.....	54,762	23,578					
Maryland.....	4,931	3,145					
Virginia.....	7,786	2,824					
North Carolina.....	6,020	3,325					
South Carolina.....	2,589	( <sup>3</sup> )					
Georgia.....	5,411	2,401					
Florida.....	26,397	10,103					

Note: The figures shown for 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32721, Maine, Nebraska, and West Virginia; 32751, New Hampshire, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indiana, Kansas, Maryland, Virginia, Georgia, Florida, Louisiana, Oklahoma, Montana, Colorado, Arizona, Utah, Nevada, and Washington; 32811, Pennsylvania, and South Dakota.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



Table 6C.—Concrete Block, Quantity and Value of Shipments, by Divisions and States: 1958

Divisions, regions, and States	Lightweight aggregate		Heavyweight aggregate		Divisions, regions, and States	Lightweight aggregate		Heavyweight aggregate	
	Thousand block (8"x8"x16" equivalent)	Value <sup>1</sup> (\$1,000)	Thousand block (8"x8"x16" equivalent)	Value <sup>1</sup> (\$1,000)		Thousand block (8"x8"x16" equivalent)	Value <sup>1</sup> (\$1,000)	Thousand block (8"x8"x16" equivalent)	Value <sup>1</sup> (\$1,000)
United States, total..	1996,779	207,380	751,096	141,720	South.....	339,262	68,202	269,373	49,166
Northeast.....	276,638	54,407	160,629	31,258	South Atlantic.....	204,390	43,418	205,586	37,467
New England.....	39,659	9,541	30,509	6,394	Delaware.....	8,021	1,667	(D)	(D)
Maine.....	(D)	(D)	3,586	730	Maryland.....	34,136	5,970	13,228	2,365
New Hampshire.....	(D)	(D)	(D)	(D)	District of Columbia.....	(D)	(D)	...	...
Vermont.....	815	154	(D)	(D)	Virginia.....	47,954	11,011	(D)	(D)
Massachusetts.....	18,326	4,322	16,463	3,529	West Virginia.....	11,584	2,506	7,636	1,682
Rhode Island.....	1,989	528	1,426	286	North Carolina.....	44,144	9,609	10,294	1,973
Connecticut.....	16,696	4,128	5,324	1,135	South Carolina.....	(D)	(D)	15,764	2,703
Middle Atlantic.....	236,979	44,866	130,120	24,864	Georgia.....	16,651	3,563	23,661	4,140
New York.....	65,123	13,562	54,489	10,324	Florida.....	22,084	5,303	124,558	22,667
New Jersey.....	70,603	14,606	15,441	2,976	East South Central.....	67,656	12,434	48,555	8,742
Pennsylvania.....	101,253	16,698	60,190	11,564	Kentucky.....	8,037	1,573	14,894	2,562
North Central.....	266,620	57,281	282,887	52,817	Tennessee.....	20,549	3,863	23,145	4,364
East North Central.....	204,060	43,343	191,586	35,815	Alabama.....	28,313	4,962	9,407	1,721
Ohio.....	67,274	13,684	56,922	10,418	Mississippi.....	10,757	2,036	1,109	95
Indiana.....	19,623	3,797	26,153	4,954	West South Central.....	67,216	12,350	15,232	2,957
Illinois.....	34,924	8,404	24,410	4,914	Arkansas.....	6,382	452	2,683	449
Michigan.....	54,686	12,389	48,663	8,569	Louisiana.....	20,683	2,681	547	103
Wisconsin.....	27,553	5,069	35,438	6,960	Oklahoma.....	5,846	1,571	7,871	1,485
West North Central.....	62,560	13,938	91,301	17,002	Texas.....	34,305	7,642	4,131	920
Minnesota.....	17,434	3,687	34,516	5,810	West.....	114,259	27,490	38,207	8,479
Iowa.....	9,319	1,947	18,529	3,686	Mountain.....	65,112	14,880	7,333	1,488
Missouri.....	16,096	3,695	14,742	2,873	Montana.....	1,781	534	186	55
North Dakota.....	3,380	916	3,338	881	Idaho.....	4,271	1,648	600	156
South Dakota.....	2,881	724	2,444	540	Wyoming.....	1,067	276	1,130	232
Nebraska.....	7,071	1,419	10,985	1,986	Colorado.....	12,656	2,968	2,749	452
Kansas.....	6,379	1,550	6,747	1,226	New Mexico.....	14,101	3,229	...	...
					Arizona.....	(D)	(D)	(D)	(D)
					Utah.....	7,230	1,615	1,646	386
					Nevada.....	(D)	(D)	(D)	(D)
					Pacific.....	149,147	12,610	30,874	6,991
					Washington.....	18,040	2,331	7,178	1,712
					Oregon.....	3,564	1,074	512	133
					California.....	37,543	9,205	23,184	5,146

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup> Revised.<sup>1</sup>Sum of detailed value figure may not equal totals because of independent rounding.

Table 7.—Materials Consumed, by Kind: 1958

Code	Description of materials	1958		
		Quantity and value for materials including interplant transfers		Stone consumed from quarries operated at the same location as the dressing plant (short tons)
		Quantity (short tons)	Delivered cost (\$1,000)	
	INDUSTRY 3281—CUT STONE AND STONE PRODUCTS			
	Materials, total <sup>1</sup> .....	1,273,102	63,794	2,290,224
	Stone for preparation:			
141191	Rough blocks used to produce dressed stone.....	1,217,639	25,599	1,583,418
142191	Broken stone received for crushing, screening or washing.....	55,463	231	706,806
970099	All other materials and supplies.....	xxx	37,964	xxx

<sup>1</sup>Comparable data for 1954 are not available.

NOTE: This table not applicable to Industries 3271, 3272, 3273, 3274, 3275

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3271	CONCRETE BLOCK AND BRICK (entire industry).....	1,796	22,766	98,103	16,404	32,933	61,292	190,355	224,333	413,670	22,790
	Establishments with:										
	90% or more specialization.....	1,442	16,063	68,194	11,677	23,011	43,093	132,450	161,797	293,840	17,004
	75-89% specialization.....	157	3,022	14,038	3,202	4,620	8,580	26,424	27,210	53,518	2,069
3272	CONCRETE PRODUCTS (entire industry)....	13,455	46,182	199,883	36,183	73,436	141,319	390,378	331,525	718,543	44,232
	Establishments with:										
	90% or more specialization.....	3,130	38,134	164,597	30,055	60,677	118,303	327,025	269,162	592,538	38,032
	75-89% specialization.....	94	2,043	9,436	1,589	3,258	6,120	15,413	13,480	28,908	1,411
32721	Concrete pipe (primary product class of estab.).....	711	17,727	80,672	13,993	29,093	57,030	179,982	153,052	334,659	17,803
	Establishments with:										
	90% or more specialization....	505	11,790	54,594	9,419	19,484	39,538	126,358	104,837	232,899	11,173
	75-89% specialization.....	76	1,881	8,121	1,478	3,108	5,719	18,073	13,883	31,553	2,237
32722	Other precast and prestressed concrete products (primary product class of estab.).....	1,961	22,647	97,162	17,422	35,527	67,070	169,501	133,693	300,540	17,371
	Establishments with:										
	90% or more specialization....	1,727	17,227	73,651	13,168	26,642	51,024	130,184	96,961	224,803	13,000
	75-89% specialization.....	80	1,326	5,876	1,069	2,102	4,182	9,087	8,555	17,419	1,101
3273	READY-MIXED CONCRETE (entire industry).	3,647	61,890	301,607	44,055	88,084	200,977	676,062	1,005,585	1,681,926	70,990
	Establishments with:										
	90% or more specialization.....	3,049	45,065	220,963	32,046	62,565	147,650	500,115	804,575	1,306,354	54,120
	75-89% specialization.....	229	5,212	26,273	3,662	7,602	16,575	51,555	70,950	122,470	5,597
3274	LIME (entire industry).....	137	7,185	32,754	6,098	12,509	25,521	73,597	57,514	130,948	6,362
	Establishments with:										
	90% or more specialization.....	94	2,680	12,747	2,267	4,637	10,228	31,316	27,970	59,213	2,907
	75-89% specialization.....	24	2,281	9,942	1,936	3,928	7,691	20,135	12,333	32,650	1,289
3275	GYPSUM PRODUCTS (entire industry).....	126	11,502	57,978	9,447	20,606	45,412	218,042	146,609	364,947	9,376
	Establishments with:										
	90% or more specialization.....	114	10,668	54,242	8,817	19,250	42,824	205,520	132,667	338,395	9,103
32751	Gypsum building materials (primary product class of estab.).....	73	11,246	56,987	9,238	20,236	44,625	214,856	144,903	360,041	8,670
3281	CUT-STONE AND STONE PRODUCTS (entire industry).....	1,001	20,348	83,038	16,995	33,056	63,818	129,038	77,072	206,264	8,405
	Establishments with:										
	90% or more specialization.....	922	15,601	65,311	12,889	24,456	49,456	104,910	67,926	172,831	6,295
	75-89% specialization.....	32	2,052	7,710	1,711	3,391	6,021	9,402	3,554	12,768	1,420

<sup>r</sup> Revised.

<sup>1</sup> See footnote 8 table 1.



# Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3291—Abrasive Products
- 3292—Asbestos Products
- 3293—Steam and Other Packing, and Pipe and Boiler Covering
- 3295—Minerals and Earths, Ground or Otherwise Treated
- 3296—Mineral Wool
- 3297—Nonclay Refractories
- 3299—Nonmetallic Mineral Products, N.E.C.

### 3291—Abrasive Products

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries. For a detailed list of products of Industry 3291, refer to table 6A, product codes 3291117 to 3291498.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Classification Manual from the previous classification system.

Value of shipments and other receipts of the Abrasive Products Industry in 1958 totaled \$491 million. This included shipments of abrasive products (primary products), valued at \$384 million, shipments of other products (secondary products) valued at \$80 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$27 million.

This industry's shipments of abrasive products (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 94 percent.

Industry 3291 shipments of abrasive products (primary products) in 1958 represented 96 percent (coverage ratio) of these products valued at \$400 million shipped by all industries. In 1954, the coverage ratio was 87 percent.

### 3292—Asbestos Products

This industry comprises establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials, except asbestos paper (Industry 2661), and other commodities composed wholly or chiefly of asbestos, except steam and other packing, pipe and boiler covering, and gaskets (Industry 3293). For a detailed list of products of Industry 3292, refer to table 6A, product codes 3292211 to 3292798.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Asbestos Products Industry in 1958 totaled \$454 million. This included shipments of asbestos products (primary products), valued at \$386 million, shipments of other products (secondary products) valued at \$46 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$22 million.

This industry's shipments of asbestos products (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent.

Industry 3292 shipments of asbestos products (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$421 million shipped by all industries. In 1954, the coverage ratio was 93 percent. Another industry shipping asbestos products (primary products) was Industry 2952, Asphalt Felts and Coatings, \$10 million.

### 3293—Steam and Other Packing, and Pipe and Boiler Covering

This industry comprises establishments primarily engaged in manufacturing packing for steam, water, and other pipe joints, and for engines, air compressors, etc.; and insulating materials for covering boilers and pipes; and gaskets. Establishments primarily engaged in manufacturing leather packing are classified in Industry 3121, rubber packing in Industry 3069, and metal packing in Industry 3599. For a detailed list of products of Industry 3293, refer to table 6A, product codes 3293211 to 3293351.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Gaskets and Insulations Industry in 1958 totaled \$189 million. This included shipments of gaskets and insulations (primary products), valued at \$148 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$18 million.

This industry's shipments of gaskets and insulations (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 86 percent.

Industry 3293 shipments of gaskets and insulations (primary products) in 1958 represented 69 percent (coverage ratio) of these products valued at \$214 million shipped by all industries. In 1954, the coverage ratio was 70 percent.

### 3295—Minerals and Earths, Ground or Otherwise Treated

This industry comprises establishments primarily engaged in crushing, grinding, pulverizing and otherwise preparing certain earths, rocks, minerals or slag for sale for industrial uses or for further manufacture. The ben-



eficiating of ores and the cleaning and grading of coal performed at the mine or by primary preparation plants are classified in mining industries. For a detailed list of products of Industry 3295, refer to table 6A, product codes 3295011 to 3295098.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. Dead burned magnesia and magnesite previously classified in Industry 3297, Nonclay Refractories, are now included in Industry 3295, Minerals: Ground or Treated.

Value of shipments and other receipts of the Minerals: Ground or Treated Industry in 1958 totaled \$208 million. This included shipments of ground or treated minerals (primary products), valued at \$176 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$25 million.

This industry's shipments of ground or treated minerals (primary products) in 1958 represented 96 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3295 shipments of ground or treated minerals (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$207 million shipped by all industries. Other industries shipping ground or treated minerals (primary products) consisted mainly of Industry 2812, Alkalies and Chlorine, \$2 million; and Industry 3273, Ready-Mixed Concrete, \$6 million.

#### 3296--Mineral Wool

This industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such silicious materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in Industries 3292 and 3293; and textile glass fibers in Industry 3229. For a detailed list of products of Industry 3296, refer to table 6A, product codes 3296111 to 3296298.

Both the code number and content for this industry were changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

Value of shipments and other receipts of the Mineral Wool Industry in 1958 totaled \$252 million. This included shipments of mineral wool (primary products), valued at \$235 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

This industry's shipments of mineral wool (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3296 shipments of mineral wool (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$247 million shipped by all industries.

#### 3297--Nonclay Refractories

This industry comprises establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry also includes establishments primarily engaged in manufacturing all-graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in Industry 3255. For a detailed list of products of Industry 3297, refer to table 6A, product codes 3297012 to 3297098.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A. Dead burned magnesia and magnesite formerly classified in this industry are now considered primary to Industry 3295, Minerals: Ground or Treated.

Value of shipments and other receipts of the Nonclay Refractories Industry in 1958 totaled \$178 million. This included shipments of nonclay refractory products (primary products), valued at \$166 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$4 million.

This industry's shipments of nonclay refractory products (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3297 shipments of nonclay refractory products (primary products) in 1958 represented 89 percent (coverage ratio) of these products valued at \$185 million shipped by all industries. Another industry shipping nonclay refractory products was Industry 3255, Clay Refractories, \$4 million.

#### 3299--Nonmetallic Mineral Products, N.E.C.

This industry comprises establishments primarily engaged in the factory production of statuary and art goods made of plaster of Paris and papier-mache and in manufacturing sand lime products, and other nonmetallic mineral products, n.e.c. For a detailed list of products of Industry 3299, refer to table 6A, product codes 3299051 to 3299081.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A. This industry now includes products of old Industry 3298, Statuary and Art Goods. In addition, exfoliated vermiculite formerly classified in this industry is now considered primary to Industry 3296, Mineral Wool.

Value of shipments and other receipts of the Nonmetallic Minerals, N.E.C. Industry in 1958 totaled \$59 million. This included shipments of nonmetallic minerals, n.e.c.



(primary products), valued at \$46 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

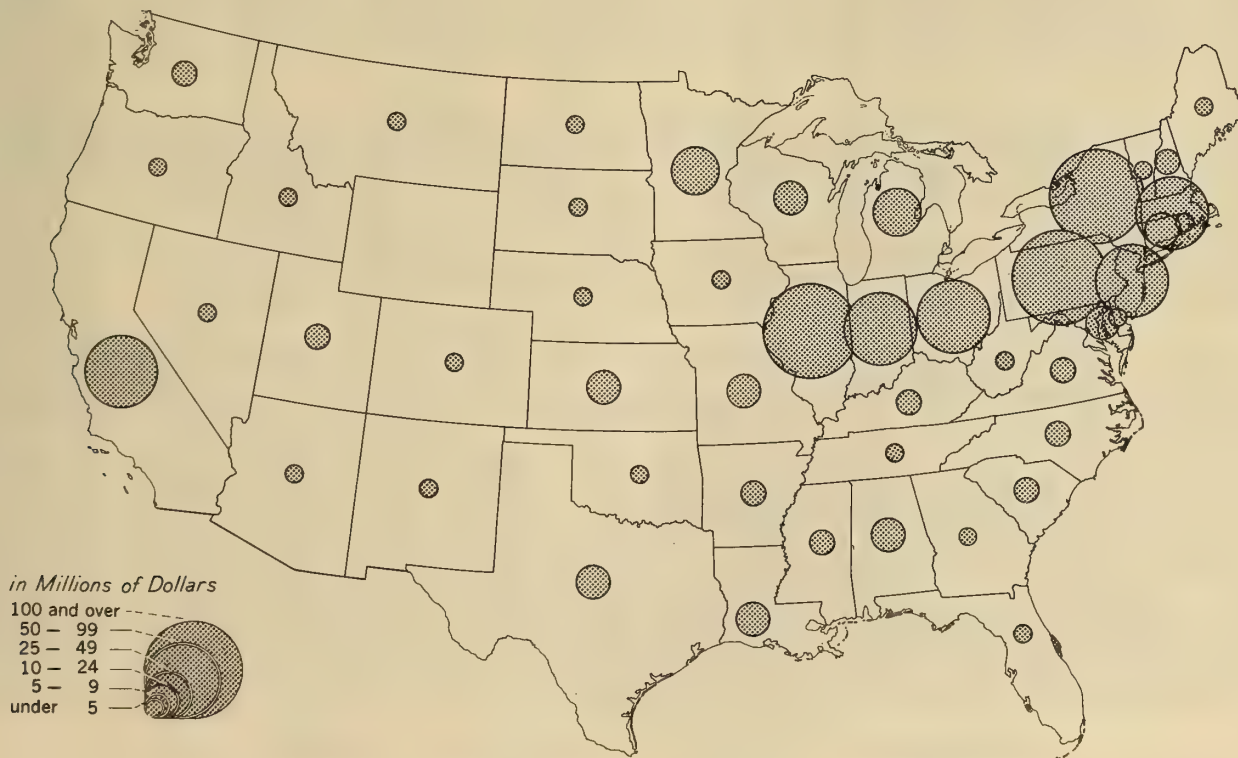
This industry's shipments of nonmetallic minerals, n.e.c. (primary products) in 1958 represented 85 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3299 shipments of nonmetallic minerals, n.e.c. (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$54 million shipped by all industries. Another industry shipping nonmetallic minerals, n.e.c. (primary products) was Industry 3273, Ready-Mixed Concrete, \$2 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS: SIC 329

Value Added by Manufacture by State: 1958



Includes Industries 3291, 3292, 3293, 3295, 3296, 3297 and 3299. See Table 2.

Bureau of the Census M-58-D329

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Speci- alization ratio <sup>6</sup>	Cov- erage <sup>7</sup>
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3291 (old SIC 3291)	Abrasive products:														
	1958.....	317	354	130	23,955	127,912	15,971	30,891	75,499	277,706	211,163	490,752	21,098	83	96
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,377	130,214	16,672	33,107	78,554	276,761	173,450	438,067	(S)	95	89
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,835	129,891	17,104	34,743	79,544	261,932	181,761	438,094	13,489	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,607	122,114	17,437	35,743	79,456	263,146	176,358	426,494	8,989	(NA)	(NA)
	1954.....	290	312	132	22,345	101,218	15,756	30,417	62,040	198,983	153,649	349,184	9,857	94	87
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,754	113,543	18,512	(NA)	75,149	231,231	174,133	405,364	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,333	99,578	16,589	(NA)	61,027	195,860	130,752	326,432	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,695	99,309	17,761	(NA)	66,158	208,167	152,395	360,382	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,572	77,306	14,966	(NA)	51,320	170,684	116,860	287,364	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,193	60,359	12,720	(NA)	37,975	123,422	79,744	202,807	(NA)	(NA)	(NA)
	1947.....	236	254	(NA)	21,042	67,114	16,068	(NA)	45,674	127,954	98,109	225,399	(NA)	94	86
	1939.....	(NA)	124	(NA)	11,321	20,491	7,734	(NA)	10,683	44,765	26,506	71,271	(NA)	(NA)	(NA)
	1937.....	(NA)	103	(NA)	11,376	18,771	9,670	(NA)	14,250	48,615	29,339	77,954	(NA)	(NA)	(NA)
	1935.....	(NA)	94	(NA)	8,693	12,806	6,776	(NA)	8,351	33,133	20,734	53,867	(NA)	(NA)	(NA)
	1933.....	(NA)	77	(NA)	5,867	6,653	4,890	(NA)	4,981	18,810	11,349	30,159	(NA)	(NA)	(NA)
	1931.....	(NA)	73	(NA)	(NA)	(NA)	4,614	(NA)	5,540	19,920	11,727	31,647	(NA)	(NA)	(NA)
3292 (old SIC 3292)	Asbestos products:														
	1958.....	69	109	80	21,292	106,411	17,024	35,046	80,440	235,487	216,612	453,488	12,837	89	92
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,876	111,056	18,277	38,167	84,896	241,547	197,982	425,866	31,376	86	93
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,831	107,586	18,234	39,195	83,603	234,313	198,556	424,549	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,694	104,934	19,075	40,359	81,588	227,517	186,379	405,120	13,967	(NA)	(NA)
	1954.....	74	110	84	21,977	92,413	17,760	35,985	70,319	186,927	176,791	361,131	14,935	87	93
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,239	91,532	17,983	(NA)	71,110	183,205	177,225	360,430	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,156	82,142	17,193	(NA)	63,859	163,477	157,839	316,227	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,936	77,836	17,306	(NA)	61,206	169,569	150,125	314,605	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,988	64,341	15,630	(NA)	50,603	143,627	112,134	250,672	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,363	54,087	14,232	(NA)	41,015	105,590	95,120	195,621	(NA)	(NA)	(NA)
	1947.....	85	112	(NA)	21,595	60,529	18,255	37,486	47,761	113,305	98,407	206,167	(NA)	87	90
	1939.....	(NA)	85	(NA)	(NA)	(NA)	10,415	(NA)	12,148	38,522	25,354	63,876	(NA)	(NA)	(NA)
	1937.....	(NA)	73	(NA)	14,442	17,113	13,023	(NA)	14,157	34,300	29,494	63,794	(NA)	(NA)	(NA)
	1933.....	(NA)	58	(NA)	6,982	6,701	6,084	(NA)	5,075	14,466	10,789	25,255	(NA)	(NA)	(NA)
	1929.....	(NA)	67	(NA)	9,228	13,896	8,092	(NA)	10,777	30,756	25,408	56,164	(NA)	(NA)	(NA)
	1921.....	(NA)	40	(NA)	2,418	2,827	2,026	(NA)	1,948	6,954	6,076	13,030	(NA)	(NA)	(NA)
	1919.....	(NA)	46	(NA)	4,184	5,332	3,654	(NA)	3,732	11,030	12,948	23,978	(NA)	(NA)	(NA)
	1914.....	(NA)	32	(NA)	1,121	703	962	(NA)	484	1,454	1,360	2,814	(NA)	(NA)	(NA)
3293	Gaskets and insulations:														
	1958.....	271	282	99	13,494	65,078	9,925	19,502	41,518	105,211	82,976	188,684	5,699	87	69
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,898	61,204	9,827	19,482	38,200	91,781	70,378	163,752	4,863	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,252	61,192	10,186	20,842	39,546	91,609	74,799	163,204	6,313	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,788	59,303	10,767	22,320	40,519	92,854	79,902	167,793	5,066	(NA)	(NA)
	1954.....	(NA)	237	87	12,807	55,115	10,128	20,340	37,241	87,253	78,615	166,073	4,954	86	70
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,758	63,443	13,233	26,299	48,451	102,063	80,732	182,795	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,632	70,305	13,701	28,705	52,416	112,518	88,169	200,713	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,575	72,295	15,771	33,991	55,059	119,909	104,902	224,837	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,581	52,838	12,811	27,088	38,709	87,365	79,586	166,977	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,112	45,573	11,224	22,940	32,281	76,922	66,888	137,836	(NA)	(NA)	(NA)
	1947.....	(NA)	193	74	13,178	36,667	10,923	21,780	27,476	66,568	53,503	120,093	3,966	83	75
	1939.....	(NA)	134	(NA)	7,531	11,169	5,907	(NA)	7,190	19,562	17,608	37,170	(NA)	(NA)	(NA)
	1937.....	(NA)	125	(NA)	7,038	9,537	5,934	(NA)	6,930	17,506	15,048	32,554	(NA)	(NA)	(NA)
	1935.....	(NA)	124	(NA)	5,755	7,062	4,774	(NA)	4,742	12,490	11,768	24,258	(NA)	(NA)	(NA)
	1933.....	(NA)	118	(NA)	(NA)	(NA)	4,285	(NA)	3,785	10,662	8,728	19,390	(NA)	(NA)	(NA)
	1931.....	(NA)	131	(NA)	(NA)	(NA)	4,120	(NA)	4,545	12,394	10,253	22,647	(NA)	(NA)	(NA)
	1929.....	(NA)	163	(NA)	7,799	12,714	6,477	(NA)	8,746	22,454	20,602	43,056	(NA)	(NA)	(NA)
	1927.....	(NA)	159	(NA)	7,479	12,142	5,946	(NA)	7,905	23,251	19,794	43,045	(NA)	(NA)	(NA)
	1925.....	(NA)	172	(NA)	7,680	12,066	6,086	(NA)	8,072	23,499	20,372	43,871	(NA)	(NA)	(NA)
	1923.....	(NA)	142	(NA)	6,322	9,311	5,064	(NA)	6,432	17,142	15,849	32,991	(NA)	(NA)	(NA)
	1921.....	(NA)	157	(NA)	6,074	8,447	4,877	(NA)	5,329	13,128	15,984	29,112	(NA)	(NA)	(NA)
	1919.....	(NA)	169	(NA)	7,689	10,366	6,147	(NA)	7,103	17,800	22,725	40,525	(NA)	(NA)	(NA)
	1914.....	(NA)	149	(NA)	5,260	4,000	4,213	(NA)	2,525	6,037	8,176	14,213	(NA)	(NA)	(NA)
	1909.....	(NA)	153	(NA)	4,886	3,168	3,648	(NA)	1,811	5,510	6,650	12,160	(NA)	(NA)	(NA)
	1904.....	(NA)	106	(NA)	3,184	1,868	2,734	(NA)	1,273	5,056	3,896	8,952	(NA)	(NA)	(NA)
	1899.....	(NA)	97	(NA)	1,437	851	1,147	(NA)	525	1,948	1,546	3,494	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3295	Minerals: Ground or treated:														
	1958 <sup>9</sup> (new).....	290	391	104	7,906	40,328	6,255	12,988	29,532	111,414	94,906	208,327	8,848	96	85
	1958 (old).....	(NA)	r 386	r 100	r 7,557	r 38,288	r 5,988	r 12,487	r 28,180	r 104,688	r 88,635	r 195,032	r 6,400	95	84
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,905	44,965	7,415	15,794	34,708	123,642	87,870	207,183	(S)	95	90
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,594	41,953	7,183	15,369	32,252	116,072	79,604	194,871	23,224	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,447	38,280	6,998	15,025	28,376	105,327	65,816	170,739	(S)	(NA)	(NA)
	1954.....	284	353	108	7,699	32,404	6,401	13,784	24,312	90,752	63,477	154,014	10,226	98	87
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,963	39,315	8,424	18,156	30,458	96,961	62,361	159,322	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,291	33,136	7,884	18,133	23,070	79,405	59,732	139,137	(NA)	(NA)	(NA)
	1947.....	(NA)	217	(NA)	8,873	24,126	7,417	(NA)	18,356	55,556	34,643	90,199	...	94	88
	1939.....	(NA)	229	(NA)	(NA)	(NA)	5,229	(NA)	5,347	23,445	14,496	37,941	(NA)	(NA)	(NA)
3296 (old SIC 3275)	Mineral wool:														
	1958 <sup>9</sup> (new).....	84	135	69	12,294	61,058	9,267	19,229	43,714	137,577	114,167	251,681	10,488	95	95
	1958 (old).....	(NA)	95	61	11,831	58,839	8,970	18,599	42,526	132,533	106,299	238,764	10,383	94	95
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,016	58,486	9,403	18,899	42,800	113,855	93,569	206,900	13,323	95	96
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,645	56,680	9,113	18,734	41,503	109,527	90,661	197,606	25,884	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,300	53,787	9,411	19,573	39,861	117,434	85,057	200,754	9,404	(NA)	(NA)
	1954.....	66	85	56	10,244	44,049	7,555	15,931	31,191	91,681	71,816	162,682	6,068	95	93
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,506	43,110	8,661	18,354	34,075	83,035	66,252	149,287	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,340	37,201	8,491	18,236	28,702	71,572	63,386	134,958	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,374	34,787	8,583	18,924	26,597	70,862	59,516	130,378	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,244	28,731	7,544	15,630	21,873	67,955	44,594	112,549	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,294	24,872	6,573	13,547	17,841	49,414	40,856	90,270	(NA)	(NA)	(NA)
	1947.....	73	91	66	8,874	22,924	7,363	15,519	18,134	36,840	36,291	73,131	13,191	(D)	(D)
	1939.....	(NA)	49	(NA)	(NA)	(NA)	1,848	(NA)	1,796	4,536	3,377	7,913	(NA)	(NA)	(NA)
	1937.....	(NA)	32	(NA)	(NA)	(NA)	1,701	(NA)	1,835	4,330	3,129	7,459	(NA)	(NA)	(NA)
3297	Nonclay refractories:														
	1958 <sup>9</sup> (new).....	50	84	66	8,013	41,167	6,325	11,657	30,352	102,362	73,770	177,643	5,516	95	89
	1958 (old).....	(NA)	89	71	8,459	43,855	6,660	12,309	32,179	111,408	81,655	194,953	7,954	94	90
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,714	52,014	8,997	16,743	41,176	128,490	88,676	212,324	19,751	93	86
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,770	50,868	9,129	17,470	40,001	126,876	87,520	210,692	16,366	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,542	43,063	8,128	15,891	34,038	109,168	74,759	180,862	4,200	(NA)	(NA)
	1954.....	49	77	59	8,559	34,260	7,150	12,890	26,124	77,443	78,717	132,130	3,739	96	90
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,953	49,159	10,269	19,840	39,825	108,696	77,538	186,234	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,498	43,068	10,048	18,701	34,787	84,861	70,256	155,130	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,696	44,404	10,295	20,944	36,927	95,553	80,795	176,363	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,818	32,129	8,653	16,275	26,478	67,759	55,611	122,930	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,553	27,341	8,506	14,297	22,243	53,907	40,179	93,753	(NA)	(NA)	(NA)
	1947.....	42	63	50	10,273	27,783	8,951	17,626	22,963	58,022	35,774	90,337	5,772	94	91
	1939.....	(NA)	41	(NA)	(NA)	(NA)	4,542	(NA)	4,936	13,464	9,760	23,224	(NA)	(NA)	(NA)
3299	Nonmetallic minerals, nec:														
	1958 <sup>9</sup> (new).....	252	254	51	4,316	16,982	3,406	6,535	11,586	31,973	26,865	58,947	1,194	85	85
	1958 (old).....	(NA)	148	39	3,503	14,839	2,610	5,056	9,168	29,578	30,351	60,020	1,034	82	84
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,391	17,746	3,364	6,767	11,648	29,944	(NA)	53,758	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,723	19,504	3,703	7,483	13,182	35,295	26,469	61,073	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,683	17,827	3,750	7,450	12,085	30,203	25,962	55,665	(S)	(NA)	(NA)
	1954.....	96	121	38	4,483	15,835	3,605	7,126	10,943	30,261	26,054	56,604	1,574	84	94
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,292	13,771	3,590	7,272	10,601	29,344	20,548	49,892	(NA)	(NA)	(NA)
	1947.....	(NA)	99	(NA)	2,579	6,459	2,184	(NA)	4,744	13,855	12,087	25,942	(NA)	(NA)	(NA)
	1939.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,563	(NA)	1,467	5,002	3,345	8,347	(NA)	(NA)	(NA)

NA Not available. <sup>r</sup> Revised.<sup>s</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3291	191,850	3296	89,887
3292	179,864	3297	78,071
3293	84,485	3299	30,340
3295	89,725		

Footnotes continued on next page.

## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for Table 1-32E

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3291	193,305	140,662	3296	110,503	67,019
3292	201,631	166,340	3297	70,709	53,026
3293	71,400	68,917	3299	23,790	24,974
3295	90,661	59,632			

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3291	466,057	332,512	3296	247,263	156,907
3292	433,314	346,206	3297	173,723	131,097
3293	170,881	153,402	3299	54,913	55,314
3295	201,924	149,357			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.



Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3296—Mineral wool.....	135	69	12,294	137,577	xxx	xxx	xxx	xxx
Old Industry 3275—Mineral wool.....	95	61	11,831	132,533	95	61	11,831	132,533
Old Industry 3299—Nonmetallic mineral products, nec.....	140	8	463	5,044	r148	r39	r3,503	r29,578
New Industry 3297—Nonclay refractories.....	84	66	8,013	102,362	xxx	xxx	xxx	xxx
Old Industry 3297—Nonclay refractories.....	84	66	8,013	102,362	r89	71	r8,459	r111,408
New Industry 3299—Nonmetallic minerals, nec.....	254	51	4,316	31,973	xxx	xxx	xxx	xxx
Old Industry 3299—Nonmetallic mineral products, nec.....	109	32	3,062	24,710	148	39	3,503	29,578
Old Industry 3298—Statuary and art goods.....	145	19	1,254	7,263	145	19	1,254	7,263

<sup>r</sup> Revised.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3291	Abrasive products, total.....	354	130	23,955	127,912	15,971	30,891	75,499	277,706	490,752	21,098	22,345	191,850	21,042
	New England.....	55	29	6,519	36,391	3,939	7,485	19,336	61,193	110,273	8,467	6,552	52,674	6,689
	Massachusetts...	32	17	5,655	32,327	3,379	6,420	17,156	53,212	96,021	8,302	5,740	46,664	6,000
	Rhode Island....	3	2	177	699	104	194	386	1,050	2,172	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Connecticut.....	15	7	529	2,724	340	652	1,384	5,737	9,635	( <sup>2</sup> )	435	3,836	354
	Middle Atlantic...	105	36	9,353	52,417	5,952	11,685	29,891	98,215	169,277	8,099	9,812	89,918	9,802
	New York.....	50	17	7,219	41,057	4,607	9,078	23,521	78,811	135,989	6,808	7,680	73,120	7,669
	New Jersey.....	22	4	591	3,170	392	765	1,760	4,789	9,190	( <sup>2</sup> )	584	4,787	638
	Pennsylvania....	33	15	1,543	8,190	953	1,842	4,610	14,615	24,098	1,177	1,547	12,010	1,495
	North Central....	150	53	7,219	35,162	5,433	10,492	23,553	110,012	195,423	3,506	5,465	45,362	4,459
	Ohio.....	39	15	1,623	7,068	1,162	2,314	4,499	14,355	25,817	( <sup>2</sup> )	1,484	9,070	1,231
	Illinois.....	49	15	1,355	6,716	1,048	2,008	4,278	25,174	34,892	696	1,515	15,196	1,599
	Michigan.....	41	18	1,488	7,739	950	1,891	4,197	15,671	28,863	698	1,724	15,007	1,473
	South.....	9	2	158	475	316	265	370	1,028	2,153	( <sup>2</sup> )	66	287	35
	West.....	35	10	706	3,467	511	964	2,349	7,258	13,626	996	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	28	8	498	2,402	346	642	1,502	5,114	9,874	503	269	2,362	(D)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3292	Asbestos products, total.....	109	80	21,292	106,411	17,024	35,046	80,440	235,487	453,488	12,837	21,977	179,864	21,595
	New England.....	15	9	2,119	10,921	1,625	3,366	8,131	19,455	33,488	( <sup>2</sup> )	2,376	15,608	2,800
	Massachusetts....	6	3	217	929	183	383	703	2,524	4,263	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic... New York.....	30	22	8,474	43,090	6,763	13,999	32,789	82,550	164,715	3,111	8,358	68,728	8,181
	New Jersey.....	6	4	1,528	7,782	1,268	2,619	5,758	12,303	41,999	615	1,503	14,039	1,121
	Pennsylvania....	14	10	4,635	24,083	3,681	7,893	18,737	46,843	84,092	1,923	4,551	36,823	4,390
	East North Central Illinois.....	10	8	2,311	11,225	1,814	3,487	8,294	23,404	38,624	573	2,303	17,865	2,670
	West North Central	16	14	4,335	22,512	3,443	7,104	16,740	56,721	113,298	2,107	4,755	43,133	(D)
	South.....	8	7	3,027	16,312	2,424	5,074	12,297	41,325	88,694	1,874	3,089	29,707	2,934
	North Carolina..	6	5	729	3,618	622	1,270	2,991	8,019	14,735	670	982	7,830	(D)
	Louisiana.....	21	17	3,738	15,935	3,093	6,096	12,114	37,796	69,252	4,673	4,009	27,801	3,536
	Texas.....	3	3	481	1,618	422	865	1,347	3,139	6,770	(D)	563	2,762	589
	West.....	5	5	1,048	4,797	851	1,620	3,662	11,092	20,602	503	1,517	11,792	1,154
		4	4	582	2,848	452	991	1,970	8,282	15,142	3,583	470	3,701	369
		21	13	1,897	10,335	1,478	3,211	7,675	30,946	58,000	1,822	1,495	16,761	516
3293	Gaskets and insulations, total.....	282	99	13,494	65,078	9,925	19,502	41,518	105,211	188,684	5,699	12,807	84,485	13,178
	New England.....	24	8	911	4,211	664	1,282	2,530	6,687	10,865	( <sup>2</sup> )	1,093	6,346	1,040
	Massachusetts....	17	4	423	2,067	298	573	1,167	3,277	5,997	( <sup>2</sup> )	628	3,453	391
	Middle Atlantic... New York.....	76	23	3,188	15,705	2,170	4,436	9,891	24,905	48,691	1,361	3,693	22,190	4,999
	New Jersey.....	33	6	479	2,135	363	711	1,336	3,368	7,020	( <sup>2</sup> )	563	3,435	1,791
	Pennsylvania....	16	7	522	2,721	351	785	1,796	5,317	10,067	( <sup>2</sup> )	1,657	7,556	541
	East North Central Ohio.....	27	10	2,187	10,849	1,456	2,940	6,759	16,220	31,604	1,169	1,472	11,199	2,667
	Indiana.....	108	48	7,619	36,938	5,806	11,293	24,071	58,281	103,106	3,665	6,771	46,921	6,326
	Illinois.....	22	11	790	3,188	632	1,138	2,086	5,402	9,636	1,303	446	2,703	287
	Michigan.....	10	4	749	3,090	626	1,254	2,249	5,362	9,204	( <sup>2</sup> )	332	2,195	...
	Wisconsin.....	42	20	4,768	24,002	3,461	6,765	14,766	37,167	62,503	1,845	3,991	26,573	3,089
	West North Central	26	10	1,124	5,748	937	1,842	4,386	8,864	19,322	( <sup>2</sup> )	1,907	14,775	2,823
	South Atlantic....	8	3	188	910	150	294	584	1,486	2,441	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West.....	11	1	77	376	50	88	204	703	1,559	( <sup>2</sup> )	96	666	68
	Texas.....	8	1	316	1,213	237	457	790	1,667	3,372	( <sup>2</sup> )	363	2,008	(D)
	West South Central	17	10	548	2,183	354	682	1,251	3,938	6,880	( <sup>2</sup> )	220	1,717	(D)
	California.....	13	8	448	1,808	270	543	992	3,290	5,688	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
		38	8	835	4,452	644	1,264	2,781	9,030	14,211	( <sup>2</sup> )	569	4,633	435
		31	7	782	4,209	597	1,174	2,583	8,601	13,419	( <sup>2</sup> )	557	4,552	423
3295	Minerals: Ground or treated, total.....	391	104	7,906	40,328	6,255	12,988	29,532	111,414	208,327	8,848	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New England.....	10	1	138	490	123	238	411	705	1,322	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic... New York.....	96	33	2,176	11,993	1,675	3,569	8,532	27,454	51,058	3,062	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New Jersey.....	21	6	414	2,150	331	684	1,709	4,926	7,580	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pennsylvania....	19	7	610	3,373	448	973	2,166	7,985	13,811	1,898	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central Ohio.....	56	20	1,152	6,470	896	1,912	4,657	14,543	29,667	861	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Indiana.....	81	22	1,608	9,250	1,297	2,781	6,934	22,919	41,545	927	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	35	7	495	2,736	416	868	2,190	6,459	10,050	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South Atlantic....	10	4	310	2,128	265	697	1,783	4,412	6,902	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Maryland.....	18	3	200	984	167	350	762	2,220	4,822	847	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	North Carolina..	45	9	833	3,537	663	1,358	2,609	8,787	14,069	825	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East South Central Alabama.....	8	2	159	868	119	250	641	2,367	3,120	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West South Central	9	2	135	452	96	191	285	1,172	2,085	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Mountain.....	27	8	584	2,335	499	1,001	1,849	7,936	12,715	558	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Utah.....	14	4	263	1,136	224	420	875	3,603	5,053	256	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pacific.....	35	13	810	3,402	625	1,302	2,374	14,320	36,276	626	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Washington.....	26	6	541	2,876	448	864	2,173	9,768	14,019	1,348	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	California.....	7	3	238	1,308	204	380	1,075	6,032	8,091	90	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
		53	9	1,016	5,461	759	1,525	3,888	17,305	32,501	640	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
		7	1	140	633	111	175	458	2,491	4,500	64	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
		42	8	864	4,779	636	1,330	3,381	14,761	27,805	555	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
3296	Mineral wool, total.	135	69	12,294	61,058	9,267	19,229	43,714	137,577	251,681	10,488	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New England.....	5	2	111	503	93	197	413	1,184	2,352	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Middle Atlantic... New York.....	21	13	1,828	10,279	1,330	2,893	6,619	23,097	38,911	590	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New Jersey.....	5	2	150	701	114	220	413	997	2,225	(D)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Pennsylvania....	10	7	1,123	6,483	803	1,776	4,204	15,446	27,435	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	North Central....	6	4	555	3,095	413	897	2,002	6,654	9,251	(D)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Ohio.....	49	30	7,872	38,307	5,896	12,520	28,709	86,676	161,792	7,431	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Indiana.....	6	4	3,136	15,546	2,140	4,408	11,068	33,817	62,648	3,140	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Illinois.....	11	10	1,907	8,997	1,567	3,345	6,957	19,247	32,039	1,826	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Michigan.....	6	3	164	634	126	245	327	1,718	3,508	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Minnesota.....	3	2	140	677	117	233	550	1,660	3,568	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
		3	2	173	805	140	305	599	1,926	3,977	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3298	Mineral wool—Continued													
	South Atlantic....	9	1	115	363	49	100	138	762	2,135	(2)	(5)	(5)	(5)
	East South Central	10	6	635	3,053	524	1,035	2,339	4,686	9,034	512	(5)	(5)	(5)
	Alabama.....	4	3	187	849	161	345	689	1,559	3,035	(2)	(5)	(5)	(5)
	West South Central	10	5	295	1,247	211	455	761	2,832	5,509	(2)	(5)	(5)	(5)
	Mountain.....	9	2	162	628	120	213	418	1,914	3,692	(D)	(5)	(5)	(5)
	Pacific.....	23	10	1,276	6,678	954	1,816	4,317	16,426	28,256	(D)	(5)	(5)	(5)
3297	Nonclay refractories, total.....	84	66	8,013	41,167	6,325	11,657	30,352	102,362	177,643	5,516	(4)	(4)	(4)
	New England.....	6	4	198	1,030	134	244	549	1,904	3,468	(2)	(4)	(4)	(4)
	Middle Atlantic...	35	28	3,598	18,281	2,675	4,752	12,431	36,265	63,137	1,236	(4)	(4)	(4)
	Pennsylvania....	24	21	2,432	12,020	1,946	3,320	8,921	25,279	41,811	754	(4)	(4)	(4)
	East North Central	21	17	1,759	9,119	1,513	2,808	7,396	25,941	45,315	2,474	(4)	(4)	(4)
	Ohio.....	11	10	807	4,197	673	1,265	3,223	11,414	20,131	(2)	(4)	(4)	(4)
	South.....	12	9	1,997	10,342	1,661	3,212	8,355	29,703	50,252	1,350	(4)	(4)	(4)
	Mountain.....	4	3	111	510	96	161	411	1,558	2,234	(2)	(4)	(4)	(4)
	Pacific.....	6	5	350	1,885	246	480	1,210	6,931	13,237	(2)	(4)	(4)	(4)
3299	Nonmetallic minerals, nec, total.....	254	51	4,316	16,982	3,406	6,535	11,586	31,973	58,947	1,194	(4)	(4)	(4)
	New England.....	19	3	575	2,245	484	924	1,555	3,722	6,718	(2)	(4)	(4)	(4)
	Middle Atlantic...	74	17	1,528	6,817	1,138	2,227	4,322	13,583	23,980	(2)	(4)	(4)	(4)
	Pennsylvania....	23	7	422	1,733	329	636	1,210	3,053	5,883	(D)	(4)	(4)	(4)
	East North Central	65	10	788	3,086	606	1,134	2,222	5,697	9,534	(2)	(4)	(4)	(4)
	Illinois.....	25	3	296	1,432	209	429	983	2,685	3,841	(2)	(4)	(4)	(4)
	West North Central	19	4	211	633	185	330	537	999	1,428	(2)	(4)	(4)	(4)
	South Atlantic....	21	11	766	2,214	637	1,269	1,621	3,687	7,990	(2)	(4)	(4)	(4)
	Virginia.....	3	3	310	847	227	420	517	1,363	3,066	(2)	(4)	(4)	(4)
	Florida.....	8	3	150	548	137	305	497	965	2,177	(2)	(4)	(4)	(4)
	East South Central	9	1	102	311	92	158	264	1,057	1,796	(2)	(4)	(4)	(4)
	West South Central	8	1	74	248	63	123	196	502	744	(2)	(4)	(4)	(4)
	Mountain.....	9	1	52	197	41	70	128	408	893	(D)	(4)	(4)	(4)
	Pacific.....	30	3	220	1,231	160	300	741	2,318	5,864	(D)	(4)	(4)	(4)
	California.....	23	3	208	1,191	149	283	705	2,243	5,612	(D)	(4)	(4)	(4)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>D Withheld to avoid disclosing figures for individual companies.

<sup>2</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3291, Abrasive Products: New England—New Hampshire, 3 (100-249); Vermont, 2 (20-99); North Central—Indiana, 7 (100-249); Wisconsin, 7 (250-499); Minnesota, 2 (1,000-2,499); Missouri, 3 (20-99); Nebraska, 1 (1-19); Kansas, 1 (1-19); South—Georgia, 2 (20-99); Tennessee, 2 (20-99); Alabama, 1 (1-19); Mississippi, 1 (20-99); Arkansas, 2 (1-19); Texas, 1 (1-19); West—Idaho, 1 (1-19); New Mexico, 1 (1-19); Arizona, 1 (1-19); Washington, 3 (100-249); Oregon, 1 (1-19).

SIC 3292, Asbestos Products: New England—New Hampshire, 2 (250-499); Vermont, 2 (20-99); Connecticut, 5 (1,465); East North Central—Ohio, 2 (250-499); Indiana, 5 (1,008); Michigan, 1 (1-19); West North Central—Missouri, 5 (500-999); Kansas, 1 (1-19); South—Virginia, 2 (500-999); South Carolina, 2 (250-499); Georgia, 2 (100-249); Florida, 1 (1-19); Alabama, 1 (100-249); Mississippi, 1 (100-249); West—Colorado, 2 (1-19); Pacific—California, 19 (1,000-2,499).

SIC 3293, Gaskets and Insulations: New England—New Hampshire, 1 (1-19); Connecticut, 6 (250-499); West North Central—Minnesota, 3 (1-19); Missouri, 7 (20-99); Kansas, 1 (1-19); South Atlantic—Maryland, 2 (20-99); Virginia, 1 (250-499); North Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 2 (1-19); West South Central—Louisiana, 1 (20-99); Oklahoma, 3 (20-99); West—New Mexico, 1 (1-19); Washington, 4 (20-99); Oregon, 2 (1-19).

SIC 3295, Minerals: Ground or Treated: New England—Maine, 1 (1-19); New Hampshire, 3 (20-99); Massachusetts, 6 (20-99); East North Central—Illinois, 21 (500-999); Michigan, 10 (20-99); Wisconsin, 5 (100-249); West North Central—Minnesota, 6 (20-99); Iowa, 2 (1-19); Missouri, 3 (20-99); South Dakota, 1 (1-19); Nebraska, 2 (1-19); Kansas, 4 (20-99); South Atlantic—Delaware, 3 (100-249); Virginia, 6 (20-99); West Virginia, 8 (100-249); South Carolina, 2 (20-99); Georgia, 5 (20-99); Florida, 4 (20-99); East South Central—Kentucky, 3 (20-99); Tennessee, 9 (100-249); Mississippi, 1 (100-249); West South Central—Arkansas, 4 (100-249); Louisiana, 6 (100-249); Oklahoma, 1 (1-19); Texas, 24 (250-499); Mountain—Montana, 1 (1-19); Idaho, 2 (20-99); Colorado, 9 (20-99); New Mexico, 1 (20-99); Arizona, 4 (20-99); Nevada, 2 (100-249); Pacific—Oregon, 4 (1-19).

SIC 3296, Mineral Wool: New England—New Hampshire, 1 (1-19); Massachusetts, 4 (100-249); North Central—Wisconsin, 7 (100-249); Iowa, 1 (1-19); Missouri, 5 (250-499); North Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 5 (1,711); South Atlantic—Maryland, 1 (1-19); Virginia, 1 (1-19); North Carolina, 2 (1-19); South Carolina, 2 (1-19); Florida, 3 (20-99); East South Central—Kentucky, 2 (250-499); Tennessee, 4 (100-249); West South Central—Arkansas, 2 (20-99); Louisiana, 1 (1-19); Texas, 7 (100-249); Mountain—Montana, 1 (1-19); Colorado, 3 (20-99); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (20-99); Pacific—Washington, 5 (20-99); Oregon, 1 (1-19); California, 16 (1,200).

SIC 3297, Nonclay Refractories: New England—Massachusetts, 2 (20-99); Connecticut, 4 (100-249); Middle Atlantic—New York, 4 (250-499); New Jersey, 7 (500-999); East North Central—Indiana, 3 (250-499); Illinois, 3 (250-499); Michigan, 3 (100-249); Wisconsin, 1 (1-19); South—Delaware, 1 (1-19); Maryland, 3 (1,000-2,499); North Carolina, 2 (20-99); Kentucky, 2 (500-999); Alabama, 2 (100-249); Louisiana, 1 (1-19); Texas, 1 (20-99); Mountain—Colorado, 1 (20-99); Arizona, 1 (1-19); Utah, 2 (20-99); Pacific—Washington, 1 (1-19); California, 5 (250-499).

SIC 3299, Nonmetallic Minerals, NEC: New England—New Hampshire, 1 (100-249); Massachusetts, 15 (250-499); Connecticut, 3 (20-99); Middle Atlantic—New York, 33 (500-999); New Jersey, 18 (250-499); East North Central—Ohio, 16 (250-499); Indiana, 2 (1-19); Michigan, 13 (100-249); Wisconsin, 9 (20-99); West North Central—Minnesota, 3 (20-99); Missouri, 13 (20-99); South Dakota, 1 (20-99); Nebraska, 2 (1-19); South Atlantic—Maryland, 1 (1-19); District of Columbia, 1 (20-99); West Virginia, 1 (1-19); North Carolina, 3 (100-249); Georgia, 4 (20-99); East South Central—Kentucky, 4 (20-99); Tennessee, 2 (1-19); Alabama, 2 (20-99); Mississippi, 1 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 1 (1-19); Oklahoma, 1 (20-99); Texas, 5 (20-99); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Arizona, 4 (20-99); Utah, 2 (1-19); Pacific—Washington, 4 (1-19); Oregon, 3 (1-19).

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>5</sup>Comparable data for 1954 and 1947 are not available, because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

<sup>6</sup>Comparable data for 1954 and 1947 are not available, because of revisions in the Standard Industrial Classification. Table 2A presents comparable data for 1958 and 1954 on the Old SIC basis.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958 and 1954

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State	1958									1954		
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expend- itures, new	All em- ployees, number	Value added by manufac- ture, unadjusted
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3296	Mineral wool, total.....	95	61	11,831	58,839	8,970	18,599	42,526	132,533	238,764	10,383	10,244	89,887
	Northeast.....	20	13	1,834	10,279	1,355	2,945	6,753	23,137	38,599	671	1,070	8,848
	North Central.....	40	27	7,754	37,686	5,905	12,349	28,361	84,998	157,472	7,394	7,458	65,940
	Ohio.....	6	4	3,136	15,546	2,140	4,408	11,068	33,817	62,648	3,140	3,389	28,201
	Indiana.....	11	10	1,907	8,997	1,567	3,345	6,957	19,247	32,039	1,826	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central.....	7	6	608	2,950	505	992	2,277	4,471	8,364	511	309	2,038
	West South Central.....	6	4	250	1,052	188	404	677	2,569	4,565	( <sup>2</sup> )	157	1,186
	Pacific.....	16	8	1,195	6,208	910	1,723	4,108	15,467	26,173	1,669	1,044	10,947
	All other divisions.....	6	3	190	664	107	186	350	1,891	3,591	( <sup>2</sup> )	204	927

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3296, Mineral Wool: Northeast—New Hampshire, 1 (1-19); Massachusetts, 2 (20-99); New York, 4 (100-249); New Jersey, 8 (1,000-2,499); Pennsylvania, 5 (500-999); North Central—Illinois, 4 (100-249); Michigan, 2 (100-249); Wisconsin, 6 (100-249); Minnesota, 2 (100-249); Iowa, 1 (1-19); Missouri, 3 (250-499); Kansas, 5 (1,711); South Atlantic—Virginia, 1 (1-19); Florida, 1 (20-99); East South Central—Kentucky, 1 (250-499); Tennessee, 3 (100-249); Alabama, 3 (100-249); West South Central—Arkansas, 1 (20-99); Texas, 5 (100-249); Mountain—Colorado, 2 (20-99); Arizona, 1 (1-19); Utah, 1 (20-99); Pacific—Washington, 4 (20-99); Oregon, 1 (1-19); California, 11 (1,000-2,499).



Table 3.—Detailed Statistics for the United States: 1958

Item	Abrasive products (SIC 3291)	Asbestos products (SIC 3292)	Gaskets and insulations (SIC 3293)	Minerals: Ground or treated (SIC 3295)	Mineral wool (SIC 3296)	Nonclay refractories (SIC 3297)	Nonmetallic minerals, nec (SIC 3299)
Primary product specialization ratio <sup>1</sup> .....	83	89	87	96	95	95	85
Coverage ratio <sup>2</sup> .....	96	92	69	85	95	89	85
Number of establishments, total.....	354	109	282	391	135	84	254
With 1-19 employees.....	224	29	183	287	66	18	203
With 20-99 employees.....	92	24	72	88	40	40	43
With 100 employees or more.....	38	56	27	16	29	26	8
Proprietors and working partners.....Number..	109	8	98	80	20	10	200
All employees:							
Number (average for the year).....	23,955	21,292	13,494	7,906	12,294	8,013	4,316
Payroll.....\$1,000..	127,912	106,411	65,078	40,328	61,058	41,167	16,982
Production workers:							
Number (average for the year).....	15,971	17,024	9,925	6,255	9,267	6,325	3,406
March.....	16,030	16,631	9,960	6,137	8,804	6,619	3,344
May.....	15,179	16,676	9,458	6,058	8,824	5,470	3,363
August.....	15,701	17,275	9,910	6,332	9,636	6,196	3,371
November.....	17,044	17,510	10,410	6,390	9,802	7,023	3,593
Man-hours.....1,000..	30,891	35,046	19,502	12,988	19,229	11,657	6,535
January-March.....do....	7,927	8,455	5,001	3,125	4,405	3,008	1,612
April-June.....do....	7,175	8,569	4,725	3,096	4,500	2,429	1,584
July-September.....do....	7,091	8,806	4,545	3,241	5,074	2,752	1,571
October-December.....do....	8,698	9,216	5,231	3,526	5,250	3,468	1,768
Wages.....\$1,000..	75,499	80,440	41,518	29,532	43,714	30,352	11,586
Cost of materials, etc., total.....do....	211,163	216,612	82,976	94,906	114,167	73,770	26,865
Materials, parts, containers, and supplies consumed.....do....	181,686	192,802	67,482	81,012	96,824	62,994	22,383
Cost of resales.....do....	17,858	14,981	11,576	4,245	3,664	3,061	3,085
Fuels consumed.....do....	4,135	4,470	2,112	5,340	9,239	5,487	556
Electricity purchased.....do....	3,614	4,199	1,413	2,928	3,467	2,186	435
Contract work.....do....	3,938	159	403	1,464	1,172	42	300
Value of shipments (including resales), total.....do....	490,752	453,488	188,684	208,327	251,681	177,643	58,947
Value of resales.....do....	24,695	20,174	17,803	6,403	4,418	3,920	4,034
Value added by manufacture, adjusted...do....	277,706	235,487	105,211	111,414	137,577	102,362	31,973
Manufacturers' inventories:							
Beginning of year, total.....do....	99,318	75,159	32,016	26,904	21,925	49,173	8,865
Finished products.....do....	38,955	36,269	12,627	8,062	8,360	19,773	2,521
Work-in-process.....do....	23,858	10,542	6,374	6,474	1,053	3,874	1,711
Materials, supplies, fuel, etc.....do....	36,505	28,348	13,015	12,368	12,512	25,526	4,633
End of year, total.....do....	95,018	70,924	30,201	23,091	<sup>r</sup> 21,299	46,144	8,334
Finished products.....do....	40,137	35,879	12,821	7,791	8,664	18,021	2,532
Work-in-process.....do....	20,789	9,905	5,776	4,867	913	4,070	1,590
Materials, supplies, fuel, etc.....do....	34,092	25,140	11,604	10,433	11,722	24,053	4,212
Expenditures for plant and equipment, total.....do....	23,278	13,265	5,826	9,178	10,581	5,662	1,268
New, total.....do....	21,098	12,837	5,699	8,848	10,488	5,516	1,194
New structures and additions to plant.....do....	6,675	2,419	1,059	2,403	1,580	641	291
New machinery and equipment.....do....	14,423	10,418	4,640	6,445	8,908	4,875	903
Used plant and equipment.....do....	1,930	428	127	330	93	146	74

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	
3291	Abrasive products:											
	Number of establishments.....	354	106	56	62	64	28	21	10	3	2	2
	All employees:											
	Number.....	23,955	229	374	887	1,911	1,992	3,240	3,307	<u>12,015</u>	(D)	(D)
	Payroll.....\$1,000..	127,912	1,023	1,683	4,302	9,335	9,571	15,928	16,911	<u>69,159</u>	(D)	(D)
	Value added, adjusted..do....	277,706	7,994	3,482	9,604	17,889	19,729	31,564	40,311	<u>147,133</u>	(D)	(D)
	Value of shipments.....do....	490,752	5,289	7,727	19,087	36,066	40,807	55,963	67,390	<u>258,423</u>	(D)	(D)
	Capital expend., new...do....	21,098	( <sup>1</sup> )	1,411	( <sup>1</sup> )	1,292	548	1,420	1,301	<u>14,470</u>	(D)	(D)
3292	Asbestos products:											
	Number of establishments.....	109	12	4	13	13	11	25	22	5	4	...
	All employees:											
	Number.....	21,292	31	27	185	424	801	3,714	6,921	<u>9,189</u>	(D)	...
	Payroll.....\$1,000..	106,411	107	101	789	2,039	3,605	17,860	35,745	<u>46,165</u>	(D)	...
	Value added, adjusted..do....	235,487	306	244	1,467	4,128	8,188	44,365	82,001	<u>94,788</u>	(D)	...
	Value of shipments.....do....	453,488	869	471	2,601	7,881	14,116	83,114	175,172	<u>169,264</u>	(D)	...
	Capital expend., new...do....	12,837	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4,648	4,653	<u>3,167</u>	(D)	...
3293	Gaskets and insulations:											
	Number of establishments.....	282	84	49	50	40	32	15	10	...	2	...
	All employees:											
	Number.....	13,494	197	338	712	1,241	2,279	2,342	6,385	...	(D)	...
	Payroll.....\$1,000..	65,078	817	1,642	3,415	5,725	10,840	10,995	<u>31,644</u>	...	(D)	...
	Value added, adjusted..do....	105,211	1,670	2,744	5,684	10,350	17,501	19,732	<u>47,530</u>	...	(D)	...
	Value of shipments.....do....	188,684	3,735	6,122	11,930	20,092	32,499	35,927	<u>78,379</u>	...	(D)	...
	Capital expend., new...do....	5,699	1,023	224	127	307	785	424	<u>2,809</u>	...	(D)	...
3295	Minerals: Ground or treated:											
	Number of establishments.....	391	96	87	104	70	18	16	...	...	...	...
	All employees:											
	Number.....	7,906	211	609	1,433	2,181	1,213	2,259	...	...	...	...
	Payroll.....\$1,000..	40,328	784	2,650	6,874	11,301	6,104	12,615	...	...	...	...
	Value added, adjusted..do....	111,414	1,556	6,233	16,163	29,876	16,513	41,073	...	...	...	...
	Value of shipments.....do....	208,327	4,004	11,911	30,365	55,646	30,143	76,258	...	...	...	...
	Capital expend., new...do....	8,848	386	697	1,642	2,453	416	3,254	...	...	...	...
3296	Mineral wool:											
	Number of establishments.....	135	18	32	16	19	21	13	13	2	...	1
	All employees:											
	Number.....	12,294	36	217	212	588	1,336	1,750	<u>8,155</u>	(D)	...	(D)
	Payroll.....\$1,000..	61,058	168	940	1,008	2,698	6,031	8,214	<u>41,999</u>	(D)	...	(D)
	Value added, adjusted..do....	137,577	592	2,066	2,978	4,785	12,837	18,437	<u>95,882</u>	(D)	...	(D)
	Value of shipments.....do....	251,681	1,320	5,844	8,048	9,692	23,843	32,177	<u>170,757</u>	(D)	...	(D)
	Capital expend., new...do....	10,488	149	163	194	330	787	841	<u>8,024</u>	(D)	...	(D)
3297	Nonclay refractories:											
	Number of establishments.....	84	7	4	7	18	22	19	6	1	...	...
	All employees:											
	Number.....	8,013	41	(D)	102	590	1,611	2,848	<u>2,821</u>	(D)	...	...
	Payroll.....\$1,000..	41,167	<u>185</u>	(D)	474	3,058	7,914	14,392	<u>15,144</u>	(D)	...	...
	Value added, adjusted..do....	102,362	<u>648</u>	(D)	1,017	7,624	20,279	33,627	<u>39,167</u>	(D)	...	...
	Value of shipments.....do....	177,643	<u>1,384</u>	(D)	1,587	11,857	34,834	60,916	<u>67,065</u>	(D)	...	...
	Capital expend., new...do....	5,516	( <sup>1</sup> )	(D)	( <sup>1</sup> )	560	( <sup>1</sup> )	2,724	<u>1,710</u>	(D)	...	...
3299	Nonmetallic minerals, nec:											
	Number of establishments.....	254	112	46	45	31	12	7	1	...	...	...
	All employees:											
	Number.....	4,316	229	317	627	861	834	<u>1,448</u>	(D)	...	...	...
	Payroll.....\$1,000..	16,982	697	1,240	2,426	3,268	2,661	<u>6,690</u>	(D)	...	...	...
	Value added, adjusted..do....	31,973	1,597	2,350	4,277	5,662	4,807	<u>13,280</u>	(D)	...	...	...
	Value of shipments.....do....	58,947	2,881	4,183	8,939	11,144	9,473	<u>22,327</u>	(D)	...	...	...
	Capital expend., new...do....	1,194	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. E Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3291	Abrasive products.....1958..	490,752	383,648	79,789	27,315	83	400,452	383,648	16,804	96
	1954..	349,184	309,270	20,154	19,760	94	355,849	309,270	46,579	87
3292	Asbestos products.....1958..	r453,488	r385,425	46,058	22,005	89	r420,717	r385,425	35,292	92
	1954..	361,131	299,105	46,178	15,848	87	323,093	299,105	23,988	93
3293	Gaskets and insulations.....1958..	188,684	147,950	22,822	17,912	87	214,136	147,950	r66,186	69
	1954..	166,073	129,611	21,810	14,652	86	184,112	129,611	54,501	70
3295	Minerals: Ground or treated...1958..	208,327	176,737	6,745	24,845	96	207,429	176,737	30,692	85
3296	Mineral wool.....1958..	251,681	235,137	12,026	4,518	95	247,060	235,137	11,923	95
3297	Nonclay refractories.....1958..	177,643	165,528	7,983	4,132	95	185,241	165,528	19,713	89
3299	Nonmetallic minerals, nec.....1958..	58,947	45,815	8,332	4,800	85	53,717	45,815	7,902	85

<sup>r</sup>Revised.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Class of products and miscellaneous receipts	Abrasive products (SIC 3291)	Asbestos products (SIC 3292)	Gaskets and insulations (SIC 3293)	Minerals: ground or treated (SIC 3295)	Mineral wool (SIC 3296)	Nonclay refractories (SIC 3297)	Non-metallic minerals, nec (SIC 3299)	Fabricated rubber products, nec (SIC 3069)	Other industries	All industries
	Total shipments and receipts of the industry.....	490,752	2453,488	188,684	208,327	251,681	177,643	58,947	xxx	xxx	xxx
	Primary products.....	383,648	2385,425	147,950	176,737	235,137	165,528	45,815	22,012	166,500	1,728,752
32911	Nonmetallic artificial sized grains, powders, and flour abrasives.....	(D)	...	...	...	...	...	...	...	(D)	38,822
32912	Nonmetallic bonded abrasive products, including diamond abrasives.....	157,631	...	...	...	...	...	...	...	6,775	164,406
32913	Nonmetallic coated abrasive products....	125,657	...	...	...	...	...	...	...	1,730	127,387
32914	Metal abrasives.....	50,605	...	...	...	...	...	...	...	14,742	55,347
32910	Abrasive products, nsk.....	(D)	...	...	...	...	...	...	...	(D)	14,490
32922	Asbestos friction materials.....	...	(D)	...	...	...	...	...	...	(D)	89,844
32924	Asbestos-cement shingles and clapboard..	...	(D)	...	...	...	...	...	...	(D)	24,950
32925	Asphalt floor tile.....	...	69,051	...	...	...	...	...	...	28,297	77,348
32926	Vinyl asbestos floor tile.....	...	60,656	...	...	...	...	...	...	25,935	66,591
32927	Asbestos textiles and other asbestos and asbestos cement products.....	...	118,908	...	...	...	...	...	...	12,874	131,782
32920	Asbestos products, nsk.....	...	(D)	...	...	...	...	...	...	(D)	24,950
32932	Gaskets, all types.....	...	(D)	106,962	...	...	...	...	19,085	17,224	143,271
32933	Packing, except leather, rubber, and metal, and asbestos insulations.....	...	(D)	33,710	...	...	...	...	2,927	26,950	63,587
32930	Steam and other packing, and pipe and boiler covering, nsk.....	...	...	7,278	...	...	...	...	...	...	7,278
32950	Minerals and earths, ground or otherwise treated.....	...	...	...	176,737	...	...	...	...	30,692	207,429
32961	Mineral wool for structural insulation..	...	(D)	...	...	235,137	...	...	...	11,923	160,151
32962	Mineral wool for industrial and equipment insulation.....	...	(D)	...	...	...	...	...	...	...	5,691
32960	Mineral wool, nsk.....	...	...	...	...	...	...	...	...	...	185,241
32970	Nonclay refractories.....	(D)	...	...	...	...	165,528	...	...	19,713	185,241
32990	Other nonmetallic mineral products, nec.	...	...	...	...	...	...	45,815	...	7,902	53,717
	Other products.....	79,789	46,058	22,822	6,745	12,026	7,983	8,332	xxx	xxx	xxx
30695	Mechanical rubber goods, nec.....	...	...	2,687	...	...	...	...	xxx	xxx	xxx
28190	Industrial inorganic chemicals, nec.....	...	...	...	2,157	...	...	...	xxx	xxx	xxx
32550	Clay refractories.....	...	...	...	...	...	3,866	...	xxx	xxx	xxx
	Other products.....	1079,789	1146,058	1220,135	4,588	12,026	4,117	148,332	xxx	xxx	xxx
	Miscellaneous receipts.....	27,315	22,005	17,912	24,845	4,518	4,132	4,800	xxx	xxx	xxx
	Contract work.....	...	...	...	16,282	...	...	...	xxx	xxx	xxx
	Sales of products bought and resold....	24,695	20,174	17,803	6,403	4,418	3,920	4,034	xxx	xxx	xxx
	Other miscellaneous receipts.....	2,620	1,831	109	2,160	100	212	766	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.

<sup>1</sup>Includes more than \$2 million accounted for by Industry 3559, Special Industry Machinery, NEC, the exact amount withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Includes more than \$2 million contributed by Industry 3982, Hard Surface Floor Coverings.

<sup>3</sup>Includes \$10,063 thousand accounted for by Industry 2952, Asphalt Felts and Coatings.

<sup>4</sup>Includes at least \$2 million made by Industries: 3292, Asbestos Products; 3461, Metal Stampings; and 3717, Motor Vehicles and Parts; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>5</sup>Includes at least \$10 million made by Industry 3292, Asbestos Products; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>6</sup>Includes at least \$2 million made by Industry 2812, Alkalies and Chlorine, and Industry 3275, Gypsum Products; the exact amount withheld to avoid disclosing figures for individual companies; and \$5,685 thousand by Industry 3273, Ready-Mixed Concrete.

<sup>7</sup>Includes at least \$2 million made by Industry 3292, Asbestos Products; and Industry 3229, Pressed and Blown Glass, NEC; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>8</sup>Includes \$4,281 thousand by Industry 3255, Clay Refractories, and more than \$2 million by Industries 3274, Lime; and 3291, Abrasive Products; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>9</sup>Includes \$2,220 thousand by Industry 3273, Ready-Mixed Concrete, and \$2 million or more shipped by Industry 3079, Plastics Products, NEC; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>10</sup>Includes more than \$2 million of product classes 32970, Nonclay refractories; 33130, Electrometallurgical products, nsk; and a variety of other products, the exact amounts withheld to avoid disclosing figures for individual companies.

<sup>11</sup>Includes \$2 million or more of product classes 30695, Mechanical rubber goods, nec; 32932, Gaskets, all types; 32961, Mineral wool for structural insulation; and 37291, Other aircraft parts and auxiliary equipment; and \$10 million or more of product class 32933, Packing (except leather, rubber, and metal) and asbestos insulations; the exact amounts withheld to avoid disclosing figures for individual companies.

<sup>12</sup>Includes \$2 million or more of product classes 24994, Cork products; and 35990, Carburetors, pistons, and other machine shop products; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>13</sup>Includes at least \$2 million of product classes 32293, Glass fiber; and 35690, General industrial machinery, nec; the exact amount withheld to avoid disclosing figures for individual companies.

<sup>14</sup>Includes at least \$2 million of product classes 22952, Resin-coated fabrics; and 28213, Synthetic resins (excludes resins for protective coatings); the exact amount withheld to avoid disclosing figures for individual companies.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers				
			1958		1954		
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
3291--	Abrasive products, total.....	.....	xxx	400,452	xxx	355,849	
32911--	Nonmetallic artificial (synthetic) sized grains, powders, and flour abrasives.....	.....	xxx	38,822	xxx	32,652	
	Sized grains, powders, and flour:						
3291117	Silicon carbide.....	Short tons...	54,040	15,457	36,365	9,698	
3291119	Aluminum oxide.....	...do.....	71,723	22,837	83,969	17,927	
3291121	Other (including combinations of silicon carbide and aluminum oxide, boron carbide, etc.).....	...do.....	3,463	528	24,320	5,027	
32912--	Nonmetallic bonded abrasive products, including diamond abrasives.....	.....	xxx	164,406	xxx	158,067	
	Artificial:						
3291211	Sticks, stones, hones, balls, and brick (excluding refractory brick, floor and stair brick, and similar byproducts).....	.....	xxx	17,910	xxx	8,683	
	Grinding and cutting wheels:						
3291231	Silicon carbide.....	.....	xxx	31,203	xxx	32,341	
3291233	Aluminum oxide.....	.....	xxx	61,563	xxx	70,813	
3291235	Other grinding and cutting wheels (including combination of silicon carbide and aluminum oxide).....	.....	xxx	4,662	xxx	6,226	
3291239	Other artificial nonmetallic abrasives and abrasive products, including grinding, lapping, buffing compounds, and crude lump forms.....	.....	xxx	9,962	xxx	8,254	
	Natural, except diamond:						
3291255	Grinding and cutting wheels.....	.....	xxx	8,053	}	8,311	
3291253	Sticks, stones, hones, and brick (excluding refractory brick, floor and stair brick, and similar byproducts).....	.....	}	xxx			5,473
3291259	Other natural nonmetallic abrasives, including grinding, lapping, and buffing compounds, sized grains, powder, and flour).....	.....					
	Diamond:						
3291261	Diamond wheels.....	.....	xxx	23,792	xxx	21,935	
3291263	Other diamond abrasives.....	.....	xxx	1,788	xxx	1,504	
32913--	Nonmetallic coated abrasive products.....	.....	xxx	127,387	xxx	111,893	
	Artificial:						
3291313	Cloth.....	Ream.....	489,343	45,304	476,821	40,122	
3291315	Paper.....	...do.....	848,076	31,653	791,238	26,942	
3291317	Other (including paper-cloth combinations, vulcanized fiber-cloth combinations, vulcanized fiber, etc.).....	.....	xxx	15,121	xxx	7,661	
	Natural, except diamonds:						
	Coated abrasive products (coated or impregnated with natural abrasive material):						
3291347	Cloth.....	Ream.....	100,138	5,729	131,150	5,520	
3291349	Paper.....	...do.....	503,146	7,397	623,743	9,166	
3291351	Other (including paper-cloth combinations, vulcanized fiber-cloth combinations, vulcanized fiber, etc.)...	.....	xxx	1,687	xxx	960	
3291371	Buffing and polishing wheels and laps made of cloth, leather, felt, and other materials (containing no abrasive grains, powders, or flour).....	.....	xxx	20,496	xxx	21,522	
32914--	Metal abrasives.....	.....	xxx	55,347	xxx	45,923	
	Metal abrasives, except scouring pads:						
3291411	Steel and iron grit, shot, and sand.....	Short tons...	157,942	16,383	160,441	15,303	
3291431	Steel wool.....	...do.....	7,361	5,997	7,348	5,053	
	Metal scouring pads and other metal abrasives:						
3291453	Metal pads with soap or other cleanser impregnated or in package.....	Gross.....	11,604,022	26,918	9,974,751	20,237	
3291457	Other.....	...do.....	888,387	2,835			
3291459	Other scouring pads.....	...do.....	74,004	1,512			
3291498	Other metal abrasives and metallic abrasives, nsk.....	.....	xxx	1,702	xxx	5,330	
3291000	Abrasive products, nsk.....	.....	xxx	14,490	xxx	7,314	
			1958		1954		
			Total production (quantity)	Total shipments including interplant transfers	Total production (quantity)	Total shipments including interplant transfers	
				Quantity		Value (\$1,000)	Quantity
3292---	Asbestos products, total.....	.....	xxx	xxx	xxx	xxx	
32922--	Asbestos friction materials.....	.....	xxx	xxx	xxx	xxx	
	Brake linings:						
3292211	Woven (containing asbestos yarn, tape or cloth).....	1,000 lin.ft.	11,038	10,402	14,665	14,568	
3292215	Molded (including all nonwoven types).....	Cubic feet...	(NA)	(NA)	577,072	566,025	
	Clutch facing:						
3292251	Woven (containing asbestos yarn, tape or cloth).....	1,000 pieces.	14,833	14,830	14,999	15,117	
3292255	Molded (including all nonwoven types).....	...do.....	(NA)	(NA)	26,180	26,892	
3292200	Asbestos friction materials, nsk.....	.....	xxx	xxx	xxx	xxx	

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including inter-plant transfers		Total production (quantity)	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3292---	Asbestos products--Continued							
32924--	Asbestos-cement shingles and clapboard.....		xxx	xxx	50,202	xxx	xxx	53,263
3292411	Siding shingles and clapboard.....	1,000 squares	4,298	4,208	45,636	6,105	5,625	47,817
3292451	Roofing shingles.....	..do.....	333	325	4,566	508	491	5,446
3292511	Asphalt floor tile.....	1,000 sq.yds.	109,026	109,494	77,348	112,165	109,679	190,679
3292611	Vinyl asbestos floor tile.....	..do.....	58,817	57,662	66,591			
32927--	Asbestos textiles, and other asbestos and asbestos cement products.....		xxx	xxx	131,782	xxx	xxx	104,205
3292711	Asbestos textiles yarn, cord and thread.....	1,000 lbs....	8,206	6,884	6,017	xxx	6,086	4,594
3292721	Cloth.....	..do.....	7,296	6,663	6,898	xxx	6,024	7,443
3292731	Other asbestos textile (such as roving, lap, wick, rope, tape, carded fiber, etc.).....	..do.....	10,500	9,769	10,317	xxx	(NA)	16,498
3292741	Asbestos-cement flat and corrugated sheets and wallboard: Flat sheets and wallboard, all thicknesses, converted to 1/4" basis.....	1,000 sq. ft.	86,437	84,720	15,916	118,140	104,108	15,293
3292751	Corrugated sheets.....	..do.....	20,483	19,869	4,291	39,694	37,894	6,473
3292771	Other asbestos and asbestos-cement products: Pipe, conduits and ducts (including pressure pipe)....	Short tons...	327,210	366,305	69,750	xxx	xxx	53,904
3292781	Asbestos felts: Roofing, asphalt or tar saturated.....	..do.....	21,929	22,145	4,949			
3292785	Other.....	..do.....	25,338	25,311	8,264			
3292798	Other asbestos and asbestos-cement products, including millboard.....		xxx	xxx	5,380	xxx	xxx	1,101
3292000	Asbestos products, nsk.....		xxx	xxx	24,950			
3293---	Steam and other packing and pipe and boiler covering, total..		xxx	xxx	214,136	xxx	xxx	184,112
32932--	Gaskets, all types.....		xxx	xxx	143,271	xxx	xxx	112,781
3293211	Asbestos, asbestos-metallic, and asbestos-rubber.....		xxx	xxx	25,938	xxx	xxx	21,838
3293221	Cork.....		xxx	xxx	17,748	xxx	xxx	13,152
3293231	Rubber (except asbestos-rubber).....		xxx	xxx	43,176	xxx	xxx	22,935
3293243	Paper and felt-base.....		xxx	xxx	6,761	xxx	xxx	10,362
3293251	Metal.....		xxx	xxx	22,445	xxx	xxx	26,577
3293298	Leather and other gaskets.....		xxx	xxx	21,714	xxx	xxx	14,248
3293200	Gaskets, nsk.....		xxx	xxx	5,489	xxx	xxx	3,669
32933--	Packing (except leather, rubber and metal) and asbestos insulations.....		xxx	xxx	62,398	xxx	xxx	63,395
3293311	Asbestos compressed sheet: Quantity reported.....	1,000 lbs....	7,941	7,962	2,908	xxx	8,362	5,021
	Quantity not reported.....		xxx	xxx	459			
3293313	Other asbestos, asbestos-metallic, and asbestos-rubber...	1,000 lbs....	9,646	9,071	13,207	xxx	6,671	9,299
3293319	Other packing.....		(NA)	(NA)	7,749	xxx	xxx	9,574
3293331	Pipe insulation: Cellular and laminated.....		xxx	xxx	5,303	xxx	xxx	8,494
3293333	85 percent magnesia.....		xxx	xxx	7,630	xxx	xxx	12,677
3293339	Other pipe insulation.....		xxx	xxx	7,080	xxx	xxx	6,526
3293343	Block insulation: 85 percent magnesia.....	1,000 bd.ft..	15,160	15,175	4,437	22,574	21,733	5,498
3293349	Other block insulation, including cellular and laminated.....	..do.....	21,264	21,207	5,209	(2)	(2)	4,722
3293351	All other asbestos insulation.....		xxx	xxx	4,917	xxx	xxx	
3293300	Packing and asbestos insulations, nsk.....		xxx	xxx	3,499	xxx	xxx	1,584
3293000	Steam and other packing and pipe and boiler coverings, nsk.		xxx	xxx	8,467	xxx	xxx	7,936
Total shipments including interplant transfers								
			1958		1954			
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)		
3295---	Minerals and earths ground or otherwise treated, total.....		xxx	207,429	xxx	170,895		
3295011	Light-weight aggregate (such as diatomaceous earth, expanded clay, expanded slag, cinders, perlite, haydite, but excluding vermiculite).....		(D)	21,899	xxx	23,008		
3295021	Dead burned magnesia or magnesite.....	Short tons...	xxx	18,706	276,745	13,385		
3295031	Crushed slag: Quantity reported.....	..do.....	16,226,882	27,973	18,531		29,690	(3)
	Quantity not reported.....		xxx	4,740				
3295041	Ground talc, soapstone, and pyrophyllite.....	Short tons...	186,114	4,020	xxx			
3295061	Crushed and ground uncalcined gypsum (including gypsite and anhydrite).....	..do.....	1,871,621	9,138	xxx	(4)		
3295071	Ground mica.....	..do.....	39,307	2,815	36,109	3,155		

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3295---	Minerals and earths, ground or otherwise treated--Continued					
3295081	Natural graphite, ground, refined, or blended.....	Short tons...	37,248	4,928	48,724	5,151
3295093	Other minerals and earths: ground or otherwise treated (including roofing granules, activated clays, pulverized limestone and silica):					
	Quantity reported.....	...do.....	3,534,196	79,939	xxx	493,591
	Quantity not reported.....	...do.....	xxx	17,683		
3295000	Minerals and earths, ground or otherwise treated, nsk.....	.....	(D)	15,588	xxx	2,915
3296---	Mineral wool, total.....	.....	xxx	247,060	xxx	171,454
32961--	Mineral wool for structural insulation from rock, slag, or glass (for insulating homes, commercial and industrial buildings for human comfort)..	.....	xxx	81,218	xxx	67,480
3296111	Loose wool (shipped as such) and granulated wool.....	Short tons...	289,541	14,854	233,244	12,231
	Building batts, blankets, and rolls:					
3296131	Full thick (3 inches or more).....	1,000 sq. ft.	642,474	24,740	806,453	20,532
3296133	2 to 2.9 inches thick.....	...do.....	606,226	17,949		
3296137	Less than 2 inches thick.....	...do.....	532,757	13,244		
	Exfoliated vermiculite:					
	Building insulation:					
3296141	Loose fill:					
	Quantity reported.....	1,000 cu. ft.	7,430	1,847	15,097	3,690
	Quantity not reported.....	.....	xxx	624		
	Aggregate.....	1,000 cu. ft.	(NA)	6,201	14,081	3,693
3296145	Other (such as accoustical).....	...do.....	1,855	707	(NA)	660
3296100	Mineral wool for structural insulation, nsk.....	.....	xxx	1,052	xxx	...
32962--	Mineral wool for industrial and equipment insulation made from rock, slag or glass.....	.....	xxx	160,151	xxx	101,744
	Blankets (flexible):					
	Industrial insulation:					
3296235	Faced, coated, and metal-meshed.....	1,000 bd. ft.	194,937	14,007	xxx	14,630
3296233	Plain.....	...do.....	387,148	17,585		
3296237	Equipment insulation.....	1,000 bd. ft.	433,520	21,261		
3296211	Loose wool (shipped as such) and granulated wool.....	Short tons...	9,139	521		
	Felts (semirigid):					
	Industrial insulation.....	...do.....	30,689	809	xxx	66,265
3296241	Equipment insulation.....	...do.....	107,265	1,909		
3296251	Blocks and boards.....	...do.....	248,202	30,251		
3296261	Pipe insulation.....	...do.....	76,805	22,960		
3296281	Insulating and finishing cements.....	...do.....	15,827	2,032		
3296271	Accoustical pads and boards.....	...do.....	145,892	30,631	61,346	12,865
	Exfoliated vermiculite:					
3296283	Industrial insulation.....	1,000 cu. ft.	(NA)	527	780	216
3296285	Other insulating products of exfoliated vermiculite, except building insulation.....	...do.....	xxx	718	xxx	2,812
3296298	Other mineral wool insulating products, except exfoliated vermiculite, nsk.....	.....	xxx	16,940	xxx	4,956
3296000	Mineral wool, nsk.....	.....	xxx	5,691	xxx	2,230
3297---	Nonclay refractories, total as reported in the 1958 Census of Manufactures...	.....	xxx	185,241	xxx	127,621
3297---	Nonclay refractories, total as reported on Census Quarterly Form M32C.....	.....	xxx	186,903	xxx	xxx
3297012	Silica brick and shapes.....	1,000 9" equivalent..	202,685	42,190	226,402	37,875
3297015	Magnesite and magnesite-chrome (magnesite predominating) brick and shapes (excluding molten cast).....	...do.....	39,673	30,692	31,351	18,939
3297021	Chrome and chrome-magnesite (chrome ore predominating) brick and shapes (excluding molten cast).....	...do.....	42,582	30,296	35,783	18,773
3297033	Graphite crucibles, retorts, stopper heads and other shaped refractories containing natural graphite.....	Short tons...				
3297035	Carbon refractories; brick, blocks and shapes, excluding those containing natural graphite.....	...do.....	13,537	8,119	9,980	65,522
3297052	Mullite brick and shapes made predominantly of kyanite, sillimanite, and alusite, or synthetic mullite (excluding molten cast).....	1,000 9" equivalent..				
3297053	Extra-high alumina brick and shapes made predominantly of fused bauxite, fused or dense-sintered alumina (excluding molten cast).....	...do.....	2,001	4,099	xxx	22,958
3297054	Silicon carbide brick and shapes made substantially of silicon carbide....	...do.....	3,802	8,285		
3297055	Zircon and zirconia brick and shapes made predominantly of these materials.	...do.....	547	2,010		
3297056	Forsterite, pyrophyllite, molten-cast, and other nonclay brick and shapes..	...do.....	xxx	14,586		
3297063	Nonclay refractory bonding mortars, air setting (wet and dry types).....	Short tons...	97,800	9,615	69,493	7,961
3297065	Nonclay refractory bonding mortars, except air setting types.....	...do.....	19,261	1,521		
3297071	Nonclay plastic refractories and ramming mixes (wet and dry types).....	...do.....	188,137	20,578	98,867	8,252
3297091	Nonclay refractory castables (hydraulic setting).....	...do.....	5,947	730	xxx	7,341
3297098	Other nonclay refractory materials sold in lump or ground form <sup>6</sup> .....	...do.....	147,200	9,420		

See footnotes at end of table.

Product code	Product	Value (\$1,000)	
		1958	1954
3299---	Nonmetallic mineral products, nec, total.....	53,717	48,056
	Other nonmetallic mineral products, nec:		
3299051	Sheet mica products, except for electronic applications, including laminated.....	22,459	24,708
3299061	Sand-lime brick, block and tile.....	9,496	72,883
3299071	Magnesite floor composition.....		
3299073	Stucco.....	3,374	5,615
3299079	Other nonmetallic mineral products, including sapphire boule.....	3,553	4,770
3299070	Other nonmetallic mineral products, nec, nsk.....	2,612	...
3299081	Statuary and art goods (factory production).....	10,987	10,080
3299000	Nonmetallic mineral products, nec, nsk.....	1,236	...

NA Not available.

<sup>2</sup>In 1954, shipments of ground talc were: quantity 99,957 tons; value, \$2,321 thousand. Value of shipments of ground soapstone and pyrophyllite included with "Other minerals and earths, ground or otherwise treated" (code 3295298).

<sup>2</sup>In 1954, shipments of ground talc were: quantity 99,957 tons; value, \$2,321 thousand. Value of shipments of ground soapstone and pyrophyllite included with "Other minerals and earths, ground or otherwise treated" (code 3295298).

<sup>4</sup>Includes a small amount of block, pipe insulation, and insulating cement for equipment insulation.

<sup>6</sup>Represents only shipments by establishments classified in "manufacturing" industries, and excludes shipments to refractory producers for the manufacture of brick and other refractories.

<sup>7</sup>In 1954, shipments of sand-lime bricks were reported as follows: 102,979 thousand bricks shipped with a value of \$2,548 thousand.

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Nonmetallic bonded abrasive products, including diamond abrasives (32912):</u>		<u>Nonmetallic coated abrasive products (32913):</u>		<u>Metal abrasives (32914)--</u>	
United States, total:		United States, total:		Continued	
1958.....	164,406	1958.....	127,387	Continued	
1954.....	158,067	1954.....	111,893	1952.....	26,474
				1951.....	27,448
				1950.....	31,837
				1949.....	25,550
				1947.....	24,306
	1958 <sup>1</sup>		1958 <sup>1</sup>		
New England.....	72,335	New England.....	12,924		
Massachusetts.....	65,263	Massachusetts.....	10,736		1958 <sup>1</sup>
Connecticut.....	5,562	Middle Atlantic.....	53,805	Middle Atlantic.....	18,412
Middle Atlantic.....	44,430	New York.....	52,184	East North Central.....	34,435
New York.....	24,148	East North Central.....	24,638	Ohio.....	9,554
New Jersey.....	5,695	Illinois.....	5,370	Illinois.....	17,556
Pennsylvania.....	14,587	Michigan.....	4,423		
East North Central.....	39,278		5,155	<u>Asbestos friction materials (32922):</u>	Value of shipments
				United States, total:	
Ohio.....	10,935			1958.....	89,844
Indiana.....	3,315	<u>Metal abrasives (32914):</u>		1957.....	107,842
Illinois.....	9,274	United States, total:		1956.....	99,583
Michigan.....	15,754	1958.....	55,347	1955.....	96,969
		1954.....	45,923	1954.....	73,852
		1953.....	30,206	1953.....	84,924
Pacific.....	7,132				

See footnotes at end of table.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
<u>Asbestos friction materials (32922)--Continued</u>			<u>Gaskets, all types (32932)--Continued</u>			<u>Packing (except leather, rubber and metal) and asbestos insulations (32933)--Continued</u>	1958 <sup>1</sup>
United States, total--Continued			United States, total--Continued			East North Central.....	16,426
1952.....	85,180		1951.....	124,585		Ohio.....	1,487
1951.....	96,935		1950.....	94,178		Illinois.....	13,019
1950.....	76,239		1947.....	78,330		Michigan.....	1,548
1947.....	58,606			1958 <sup>1</sup>	1954	West South Central.....	2,560
	1958 <sup>1</sup>	1954	New England.....	12,041	11,616	Pacific.....	4,072
New England.....	18,218	15,875	Massachusetts.....	7,541	4,946	<u>Mineral wool for structural insulation (32961):</u>	Value of shipments
Middle Atlantic.....	35,677	31,314	Middle Atlantic.....	28,981	20,460	United States, total:	
New Jersey.....	16,262	15,232	New York.....	8,802	6,630	1958.....	81,218
East North Central.....	25,467	20,293	New Jersey.....	10,850	8,692	1954.....	67,480
Indiana.....	10,850	7,704	Pennsylvania.....	9,329	5,137		1958 <sup>1</sup>
Pacific.....	2,596	1,263	East North Central.....	80,643	66,800	Middle Atlantic.....	22,974
California.....	2,596	( <sup>2</sup> )	Ohio.....	11,602	7,411	East North Central.....	18,083
	Value of shipments		Indiana.....	8,077	3,651	Indiana.....	6,671
<u>Asbestos textiles, and other asbestos and asbestos cement products (32927):</u>			Illinois.....	41,755	31,283	Illinois.....	1,975
United States, total:			Michigan.....	17,553	23,942	West North Central.....	13,907
1958.....	131,782		Wisconsin.....	1,656	( <sup>3</sup> )	Minnesota.....	2,094
1954.....	104,205		West North Central.....	1,610	1,436	South Atlantic.....	1,251
	1958 <sup>1</sup>		South Atlantic.....	5,351	5,773	West South Central.....	8,137
New England.....		8,399	Virginia.....	3,882	( <sup>2</sup> )	Alabama.....	2,902
Middle Atlantic.....		38,443	West South Central.....	3,652	( <sup>2</sup> )	West South Central.....	5,096
Pennsylvania.....		17,811	Pacific.....	10,931	5,571	Mountain.....	2,690
West North Central.....		7,566		Value of shipments		Pacific.....	8,521
South Atlantic.....		11,505	<u>Packing (except leather, rubber and metal) and asbestos insulations (32933):</u>			<u>Mineral wool for industrial and equipment insulation (32962):</u>	Value of shipments
North Carolina.....		6,090	United States, total:			United States, total:	
Pacific.....		28,460	1958.....	62,398		1958.....	160,151
			1954.....	63,395		1954.....	101,744
				1958 <sup>1</sup>			1958 <sup>1</sup>
<u>Gaskets, all types (32932):</u>			New England.....	3,892		Middle Atlantic.....	16,828
United States, total:			Massachusetts.....	2,663		New Jersey.....	7,441
1958.....	143,271		Middle Atlantic.....	34,093		East North Central.....	78,497
1957.....	140,753		New York.....	4,694		Indiana.....	21,441
1956.....	138,355		New Jersey.....	13,917		West North Central.....	42,491
1955.....	142,400		Pennsylvania.....	15,482		Pacific.....	18,549
1954.....	112,781						
1953.....	115,174						
1952.....	104,799						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32912, California; 32913, Connecticut, New Jersey, Wisconsin, and Minnesota; 32914, New York, Pennsylvania, Indiana, and Michigan; 32922, Massachusetts, Connecticut, New York, Pennsylvania, Ohio, Illinois, Virginia, and Texas; 32927, New Hampshire, Massachusetts, New York, New Jersey, Ohio, Illinois, Missouri, South Carolina, Georgia, Louisiana, Texas, and California; 32932, Connecticut, North Carolina, Texas, and California; 32933, Connecticut, Texas, and California; 32961, Ohio, Kansas, Wisconsin, Kentucky, Tennessee, Texas, Colorado, Washington, and California; 32962, Pennsylvania, Ohio, Illinois, Michigan, Minnesota, Missouri, Kansas, West Virginia, and California.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	1958		1954		1958		1954	
		Quantity (Short tons)	Delivered cost (\$1,000)	Quantity (Short tons)	Delivered cost (\$1,000)	Quantity (Short tons)	Delivered cost (\$1,000)	Quantity (Short tons)	Delivered cost (\$1,000)
		INDUSTRY 3292—ASBESTOS PRODUCTS				INDUSTRY 3293—GASKETS AND INSULATIONS			
	Materials and components, parts, con- tainers and supplies, total.....	xxx	192,802	xxx	160,032	xxx	67,482	xxx	64,858
149901	Asbestos, crude (including fiber).....	533,621	67,103	481,284	48,478	22,753	3,543	45,838	8,951
260091	Paper and paperboard containers.....	xxx	5,929	xxx		xxx	3,286	xxx	
970099	All other materials and components, parts, containers and supplies.....	xxx	116,139	xxx	111,554	xxx	60,653	xxx	55,907
973000	Materials consumed, nsk.....	xxx	3,631	xxx		xxx	xxx	xxx	xxx

NOTE: This table not applicable to Industries 3291, 3295, 3296, 3297, 3299



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3291	ABRASIVE PRODUCTS (entire industry)....	354	23,955	127,912	15,971	30,891	75,499	277,706	211,163	490,752	21,098
	Establishments with:										
	90% or more specialization.....	330	14,105	72,876	9,750	19,087	44,086	147,643	112,399	256,095	7,753
32911	Nonmetallic artificial (synthetic) sized grains, powders, and flour abrasives (primary product class of estab.).....	17	1,212	7,222	924	1,824	4,852	18,246	19,529	37,786	1,183
32912	Nonmetallic bonded abrasive products, including diamond abrasives (primary product class of estab.).....	110	11,597	65,374	7,236	14,042	36,734	109,636	72,798	186,262	11,223
	Establishments with:										
	90% or more specialization....	95	6,515	35,528	4,333	8,538	21,147	61,485	35,865	98,471	3,890
32913	Nonmetallic coated abrasive products (primary product class of estab.)...	75	8,100	39,827	5,495	10,505	23,771	98,510	83,066	185,473	6,834
32914	Metal abrasives (primary product class of estab.).....	43	2,311	12,152	1,787	3,579	7,874	36,739	26,229	57,417	1,122
3292	ASBESTOS PRODUCTS (entire industry)....	109	21,292	106,411	17,024	35,046	80,440	235,487	216,612	453,488	12,837
32922	Asbestos friction materials (primary product class of estab.).....	27	6,218	29,604	4,641	9,212	20,874	60,252	38,196	99,939	1,304
32924	Asbestos-cement shingles and clapboard (primary product class of estab.).....	19	2,335	11,496	1,943	3,899	9,089	24,705	22,647	47,247	984
	Establishments with:										
	90% or more specialization....	12	1,366	6,833	1,139	2,320	5,417	15,560	13,773	29,206	454
	75-89% specialization.....	4	433	2,226	357	716	1,775	4,483	4,540	9,026	( <sup>1</sup> )
32925	Asphalt floor tile (primary product class of estab.).....	11	2,729	13,798	2,195	4,718	10,218	27,800	63,279	91,588	1,504
32926	Vinyl asbestos floor tile (primary product class of estab.).....	9	1,751	9,990	471	3,231	8,120	25,955	32,556	58,303	1,258
32927	Asbestos textiles, and other asbestos and asbestos cement products (primary product class of estab.).....	34	8,191	41,268	6,715	13,872	31,931	96,221	59,474	155,452	7,777
3293	GASKETS AND INSULATIONS (entire industry).....	282	13,494	65,078	9,925	19,502	41,518	105,211	82,976	188,684	5,699
	Establishments with:										
	90% or more specialization.....	233	6,793	32,717	4,966	9,750	20,490	55,384	48,763	104,855	2,881
	75-89% specialization.....	19	2,718	13,406	1,903	3,680	7,937	16,812	10,130	27,136	1,376
32932	Gaskets, all types (primary product class of estab.).....	151	10,176	49,254	7,701	14,996	31,520	80,117	60,109	139,961	4,001
	Establishments with:										
	90% or more specialization....	106	4,193	20,366	3,221	6,321	13,005	34,998	30,243	65,223	2,055
	75-89% specialization.....	22	2,433	11,741	1,706	3,226	6,487	15,098	8,865	24,099	655
32933	Packing (except leather, rubber and metal) and asbestos insulations (primary product class of estab.)...	66	2,729	13,346	1,737	3,610	8,070	20,907	19,098	40,533	1,402
	Establishments with:										
	90% or more specialization....	52	1,455	7,088	869	1,784	4,047	11,722	11,031	23,181	504
3295	MINERALS GROUND OR TREATED (entire industry).....	391	7,906	40,328	6,255	12,988	29,532	111,414	94,906	208,327	8,848
	Establishments with:										
	90% or more specialization.....	330	6,325	31,763	5,040	10,543	23,726	89,811	75,113	167,123	7,654
	75-89% specialization.....	9	376	2,035	267	500	1,191	4,883	7,975	12,594	534
3296	MINERAL WOOL (entire industry).....	135	12,294	61,058	9,267	19,229	43,714	137,577	114,167	251,681	10,488
	Establishments with:										
	90% or more specialization.....	122	11,361	56,814	8,517	17,791	40,798	126,035	106,715	232,756	9,237
3297	NONCLAY REFRACTORIES (entire industry)...	84	8,013	41,167	6,325	11,657	30,352	102,362	73,770	177,643	5,516
	Establishments with:										
	90% or more specialization.....	68	6,866	35,709	5,477	10,064	26,714	88,584	62,591	152,365	4,872
	75-89% specialization.....	4	219	1,025	175	327	773	4,802	3,021	7,898	( <sup>1</sup> )
3299	NONMETALLIC MINERALS, NEC (entire industry).....	254	4,316	16,982	3,406	6,535	11,586	31,973	26,865	58,947	1,194
	Establishments with:										
	90% or more specialization.....	227	3,347	12,428	2,774	5,277	9,019	21,874	18,541	40,464	863
	75-89% specialization.....	7	125	423	100	199	342	735	972	1,733	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.





## Major Group 33.—Primary Metal Industries

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the

manufacture of castings, forgings, and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees <sup>1</sup>		Production workers			Value added by manu- facture, adjusted <sup>2</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	1,135,577	6,638,899	886,594	1,676,937	4,713,957	11,671,341	1,427,619
Administrative and auxiliary establishments.....	(NA)	(NA)	39,218	335,452	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	6,446	3,411	1,096,359	6,303,447	886,594	1,676,937	4,713,957	11,671,341	1,427,619
Operating manufacturing establishments (based on old SIC) <sup>3</sup> .....	6,199	3,281	1,073,185	6,188,564	868,633	1,639,709	4,631,444	11,439,411	1,413,516
Operating manufacturing establishments:									
1957 <sup>3</sup> 4.....	(NA)	(NA)	1,271,940	7,018,584	1,053,293	2,057,371	5,439,962	13,320,274	2,149,779
1956 <sup>3</sup> 4.....	(NA)	(NA)	1,319,204	6,892,645	1,109,459	2,195,376	5,444,329	13,847,991	1,650,962
1955 <sup>3</sup> 4.....	(NA)	(NA)	1,273,761	6,418,291	1,075,733	2,192,269	5,117,098	12,962,929	977,362
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	1,187,126	5,508,991	940,401	1,815,379	3,993,165	9,771,558	910,396
Administrative and auxiliary establishments.....	(NA)	(NA)	34,907	248,890	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments (Revised) <sup>3</sup> .....	(NA)	(NA)	1,152,219	5,260,101	966,478	1,865,662	4,104,712	9,771,558	910,396
Operating manufacturing establishments (Original).....	5,838	(NA)	1,119,716	5,111,522	938,511	1,812,027	3,985,548	9,390,435	831,095
Operating manufacturing establishments:									
1953 <sup>4</sup> .....	(NA)	(NA)	1,287,765	6,001,743	1,102,455	2,252,974	4,867,388	11,003,954	1,211,656
1952 <sup>4</sup> .....	(NA)	(NA)	1,240,337	5,214,580	1,065,557	2,071,441	4,204,165	9,050,545	(NA)
1951 <sup>4</sup> .....	5,490	(NA)	1,244,210	5,137,288	1,079,120	2,255,874	4,218,802	9,760,640	1,126,715
1950 <sup>4</sup> .....	5,322	(NA)	1,129,040	4,157,451	977,450	2,008,705	3,400,055	7,950,990	548,253
1949 <sup>4</sup> .....	(NA)	(NA)	1,016,289	3,464,563	868,079	1,701,606	2,769,637	5,710,240	567,956
1947.....	5,365	(NA)	1,158,158	3,601,791	1,012,008	2,053,663	2,982,736	5,733,028	592,177
1939 <sup>5</sup> .....	3,512	(NA)	(NA)	(NA)	672,438	(NA)	978,355	2,168,899	(NA)
1937.....	3,245	(NA)	(NA)	(NA)	792,096	(NA)	1,204,929	2,519,978	(NA)

NA Not available.

<sup>1</sup>The figures for 1939 through 1958 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The 1957 edition of the Standard Industrial Classification classifies Beehive Coke Ovens and Byproduct Coke Ovens in Major Group 33. Such establishments were previously included in Major Group 29, Petroleum and Coal Products. However, this change was reflected in the tabulations for the 1955-1957 Annual Surveys of Manufactures. Data for 1954 were retabulated on this basis and are the source of the data labeled "Revised."

<sup>4</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>5</sup>The figures for 1939-1958 are not entirely comparable with those for 1937 because the 1937 figures (a) include data for establishments primarily engaged in producing certain nonferrous bearings and aluminum products (ship bunks, ornamental metal work, stampings, novelties, valves and fittings, machined castings and tags), and (b) exclude data for establishments primarily engaged in making electrometallurgical products, nonferrous die castings and forgings, cast aluminum cooking ware, and in the heat treating of steel. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$2,131.2 million. Figures have not been compiled for 1935 and prior years because of large elements of noncomparability in the earlier statistics of a number of industries included in the primary metal group.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
33	PRIMARY METAL INDUSTRIES, TOTAL. . .	6 446	3 411	1 096 359	6 303 447	886 594	1 676 937	4 713 957	11 671 341	1 427 619	1 169 331	9 875 546
	NEW ENGLAND . . . . .	622	310	59 241	307 315	47 261	92 090	221 434	524 749	34 485	61 476	469 616
	MAINE . . . . .	14	3	247	936	196	351	607	1 836	46	286	2 011
	NEW HAMPSHIRE . . . . .	20	13	1 747	8 016	1 345	2 747	5 545	15 762	1 260	1 375	8 750
	VERMONT . . . . .	8	6	445	2 194	364	709	1 322	3 893	153	630	3 050
	MASSACHUSETTS . . . . .	280	138	22 724	118 233	17 908	34 937	84 063	184 040	9 728	22 652	165 319
	RHODE ISLAND . . . . .	80	37	8 577	40 870	6 940	13 731	29 463	74 874	2 769	7 144	57 700
	CONNECTICUT . . . . .	220	113	25 501	137 066	20 508	39 615	100 434	244 344	20 529	(*)	(*)
	MIDDLE ATLANTIC . . . . .	1 565	825	332 411	1 906 051	264 959	488 936	1 400 110	3 275 992	395 092	367 095	2 848 573
	NEW YORK . . . . .	556	243	68 340	383 070	53 637	102 549	280 219	667 696	64 783	78 377	637 847
	NEW JERSEY . . . . .	352	184	37 206	205 732	29 134	57 870	149 114	370 542	22 423	40 673	326 206
	PENNSYLVANIA . . . . .	657	398	226 865	1 317 249	182 188	328 517	970 777	2 237 754	307 886	248 505	1 884 540
	EAST NORTH CENTRAL . . . . .	2 231	1 276	423 705	2 486 442	344 836	647 828	1 868 593	4 494 909	616 812	468 405	4 006 918
	OHIO . . . . .	677	393	153 269	886 547	127 193	230 796	681 963	1 643 681	199 863	175 955	1 471 772
	INDIANA . . . . .	246	149	87 846	525 219	70 885	133 270	392 881	1 047 335	206 927	91 210	808 600
	ILLINOIS . . . . .	558	326	89 432	527 185	71 415	136 110	382 876	906 854	142 762	96 200	840 000
	MICHIGAN . . . . .	537	288	67 977	411 669	55 351	109 244	311 055	683 092	59 442	79 200	695 300
	WISCONSIN . . . . .	213	120	25 181	135 822	19 992	38 408	99 818	213 947	7 818	25 932	191 715
	WEST NORTH CENTRAL . . . . .	324	164	27 424	146 473	22 066	41 930	108 143	273 884	19 160	26 850	192 700
	MINNESOTA . . . . .	79	39	5 559	30 526	4 677	8 696	23 671	47 311	2 392	5 911	34 075
	IOWA . . . . .	73	34	5 294	28 656	4 210	8 493	20 885	62 276	2 352	5 570	53 272
	MISSOURI . . . . .	113	65	13 575	73 312	10 773	20 023	53 731	131 716	12 940	13 900	94 500
	NORTH DAKOTA . . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA . . . . .	15	7	1 108	5 792	789	1 618	3 433	20 383	(D)	643	5 988
	KANSAS . . . . .	41	19	1 879	8 163	1 609	3 086	6 403	12 160	1 345	891	5 280
	SOUTH ATLANTIC . . . . .	309	149	73 618	423 584	60 769	117 648	330 084	882 396	93 529	67 599	671 945
	DELAWARE . . . . .	11	8	2 952	15 987	2 219	4 266	11 625	21 093	2 239	2 951	25 287
	MARYLAND . . . . .	46	27	35 991	209 567	29 388	56 220	161 942	430 062	22 661	33 240	348 800
	VIRGINIA . . . . .	45	23	4 829	23 186	4 131	8 530	18 274	48 972	1 772	3 280	17 660
	WEST VIRGINIA . . . . .	40	28	21 662	139 916	18 310	35 591	111 800	323 825	61 341	21 981	243 100
	NORTH CAROLINA . . . . .	49	18	2 720	12 265	2 207	4 372	9 035	23 303	2 600	2 250	13 740
	SOUTH CAROLINA . . . . .	15	6	704	2 834	6 34	1 290	2 338	7 463	175	549	4 733
	GEORGIA . . . . .	48	21	3 252	13 758	2 625	4 708	10 550	16 191	1 164	2 657	14 582
	FLORIDA . . . . .	55	18	1 508	6 071	1 255	2 671	4 520	11 487	887	805	4 974
	EAST SOUTH CENTRAL . . . . .	205	142	57 718	325 831	48 271	93 416	257 401	691 008	96 107	58 559	531 386
	KENTUCKY . . . . .	31	22	6 087	49 397	6 617	12 939	39 002	98 437	14 127	6 725	68 000
	TENNESSEE . . . . .	73	44	11 127	56 192	9 532	18 046	45 694	120 697	5 357	11 760	9 400
	ALABAMA . . . . .	91	70	38 024	218 422	31 756	61 706	171 372	469 497	76 248	40 000	370 000
	MISSISSIPPI . . . . .	10	6	480	1 820	366	725	1 332	2 377	375	190	370
	WEST SOUTH CENTRAL . . . . .	271	131	33 074	180 901	27 008	54 056	135 654	441 846	19 223	33 236	313 947
	ARKANSAS . . . . .	21	11	2 450	14 149	1 962	4 179	11 008	36 297	703	2 617	29 597
	LOUISIANA . . . . .	25	12	3 550	22 258	2 963	6 012	17 149	84 460	745	3 886	47 014
	OKLAHOMA . . . . .	39	17	2 940	14 216	2 569	4 856	11 139	23 121	1 936	3 810	25 494
	TEXAS . . . . .	186	91	24 134	130 278	19 514	39 009	96 358	297 968	15 839	22 922	211 840
	MOUNTAIN . . . . .	111	64	28 190	170 604	22 691	45 081	127 135	343 172	23 895	28 204	282 098
	MONTANA . . . . .	14	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	IDAHO . . . . .	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	COLORADO . . . . .	40	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8 230	71 600
	NEW MEXICO . . . . .	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ARIZONA . . . . .	20	12	4 976	26 988	4 123	8 210	21 171	41 317	(D)	4 393	36 266
	UTAH . . . . .	24	16	8 439	56 771	6 577	12 858	39 973	140 725	6 517	8 829	106 546
	NEVADA . . . . .	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 555	23 086
	PACIFIC . . . . .	808	350	60 978	356 246	48 732	95 952	265 403	743 385	129 316	57 930	558 456
	WASHINGTON . . . . .	75	37	10 320	63 310	8 374	16 633	48 908	172 040	16 212	12 567	161 379
	OREGON . . . . .	55	23	4 214	24 758	3 488	6 871	19 372	65 784	21 048	3 008	34 538
	CALIFORNIA . . . . .	678	290	46 444	268 178	36 870	72 448	197 123	505 561	92 056	42 354	362 537
331	STEEL ROLLING AND FINISHING, TOTAL . .	712	562	578 185	3 570 778	469 579	868 076	2 694 452	6 862 919	1 006 557	(1)	(1)
	NEW ENGLAND . . . . .	62	50	11 237	64 457	9 063	16 859	46 122	103 309	9 202	(1)	(1)
	MASSACHUSETTS . . . . .	39	31	6 165	36 818	4 847	9 312	26 227	53 125	3 422	(1)	(1)
	CONNECTICUT . . . . .	15	15	3 129	18 224	2 518	4 667	12 534	31 677	4 824	(1)	(1)
	MIDDLE ATLANTIC . . . . .	239	174	214 488	1 289 592	172 152	310 107	956 897	2 259 542	303 450	(1)	(1)
	NEW YORK . . . . .	51	32	32 060	193 658	25 254	47 128	143 036	354 848	23 048	(1)	(1)
	NEW JERSEY . . . . .	37	23	6 078	36 378	4 561	8 703	25 513	64 297	5 207	(1)	(1)
	PENNSYLVANIA . . . . .	151	119	176 350	1 059 556	142 337	254 276	788 348	1 840 397	275 195	(1)	(1)
	EAST NORTH CENTRAL . . . . .	220	191	220 097	1 381 916	180 452	332 487	1 050 663	2 726 928	487 510	(1)	(1)
	OHIO . . . . .	80	76	93 387	563 239	78 754	139 212	444 146	1 111 351	132 445	(1)	(1)
	INDIANA . . . . .	26	24	58 388	368 438	47 149	87 144	275 659	791 391	187 914	(1)	(1)
	ILLINOIS . . . . .	71	52	44 450	286 406	35 322	67 127	207 829	512 024	124 117	(1)	(1)
	MICHIGAN . . . . .	31	29	21 001	147 512	17 026	34 542	111 137	275 712	41 709	(1)	(1)
	WISCONSIN . . . . .	12	10	2 871	16 321	2 201	4 462	11 892	36 450	1 325	(1)	(1)
	WEST NORTH CENTRAL . . . . .	16	12	9 180	57 875	7 083	13 487	41 195	107 745	13 354	(1)	(1)
	MISSOURI . . . . .	5	5	5 291	34 600	3 897	7 498	23 412	69 851	(D)	(1)	(1)
	SOUTH ATLANTIC . . . . .	40	29	49 946	301 965	42 113	80 184	243 409	658 668	37 690	(1)	(1)
	WEST VIRGINIA . . . . .	14	11	16 253	105 763	14 304	27 678	89 286	242 957	14 853	(1)	(1)

See footnotes at end of table.



## PRIMARY METAL INDUSTRIES

33-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
331	STEEL ROLLING & FINISHING—CONTINUED											
	EAST SOUTH CENTRAL . . . . .	41	40	29 227	185 255	23 828	46 633	143 503	403 341	42 575	(1)	(1)
	KENTUCKY . . . . .	8	8	6 273	40 536	5 170	10 105	31 851	81 377	13 349	(1)	(1)
	ALABAMA . . . . .	21	21	20 874	135 482	16 912	33 001	104 298	301 657	28 302	(1)	(1)
	WEST SOUTH CENTRAL . . . . .	14	12	9 777	62 041	7 630	15 063	45 038	119 781	10 066	(1)	(1)
	WEST . . . . .	80	54	34 233	227 677	27 257	53 256	167 625	483 605	102 710	(1)	(1)
	OREGON . . . . .	4	4	1 035	7 140	860	1 697	5 516	27 360	901	(1)	(1)
	CALIFORNIA . . . . .	61	39	18 865	121 382	15 104	28 896	90 606	263 984	77 890	(1)	(1)
332	IRON AND STEEL FOUNDRIES: TOTAL . . .	1 648	1 138	182 033	886 069	153 242	283 762	682 861	1 322 220	56 269	212 365	1 339 270
	NEW ENGLAND . . . . .	123	78	7 073	31 413	5 969	10 956	24 168	43 710	1 285	8 134	47 247
	NEW HAMPSHIRE . . . . .	8	6	448	1 955	366	774	1 433	2 621	66	(*)	(*)
	MASSACHUSETTS . . . . .	64	37	3 896	18 141	3 340	6 132	14 367	25 932	678	4 380	28 058
	CONNECTICUT . . . . .	31	23	2 098	9 165	1 783	3 176	6 809	12 517	491	2 474	13 599
	MIDDLE ATLANTIC . . . . .	327	233	35 336	174 793	29 636	53 398	132 466	248 372	15 218	43 502	269 455
	NEW YORK . . . . .	87	56	7 256	36 263	5 996	11 365	27 094	50 684	1 690	9 743	60 764
	NEW JERSEY . . . . .	55	42	6 330	30 804	5 326	9 839	23 728	48 317	4 940	7 826	52 975
	PENNSYLVANIA . . . . .	185	135	21 750	107 726	18 314	32 194	81 644	149 371	8 588	25 933	155 716
	EAST NORTH CENTRAL . . . . .	580	454	88 855	456 631	74 037	137 165	350 910	665 493	23 483	108 032	704 888
	OHIO . . . . .	169	136	25 637	130 784	21 413	39 109	98 928	203 025	9 009	31 081	205 022
	INDIANA . . . . .	79	60	11 603	58 356	9 989	18 790	47 110	88 219	2 391	13 043	75 305
	ILLINOIS . . . . .	125	97	16 357	79 984	13 379	23 750	59 642	110 239	3 977	20 105	125 853
	MICHIGAN . . . . .	123	99	24 323	133 444	20 602	39 362	106 198	188 426	5 905	32 384	230 096
	WISCONSIN . . . . .	84	62	10 935	54 063	8 654	16 154	39 032	75 584	2 201	11 418	68 610
	WEST NORTH CENTRAL . . . . .	127	78	9 160	40 813	7 725	14 349	32 122	63 471	2 482	9 180	51 397
	IOWA . . . . .	32	18	2 007	9 248	1 761	3 366	7 670	13 581	229	2 173	11 496
	MISSOURI . . . . .	38	28	4 117	17 834	3 420	6 121	14 129	27 066	718	4 904	27 241
	NEBRASKA . . . . .	5	3	317	1 470	236	495	999	2 784	14	122	610
	SOUTH ATLANTIC . . . . .	123	65	8 092	32 633	6 868	13 353	24 613	52 257	2 250	7 720	42 079
	DELAWARE . . . . .	5	5	887	3 955	611	1 143	2 461	5 862	(D)	558	2 940
	MARYLAND . . . . .	12	10	771	3 135	667	1 296	2 423	5 162	83	986	5 441
	VIRGINIA . . . . .	27	14	2 863	12 149	2 459	4 986	9 065	18 764	561	2 618	14 575
	WEST VIRGINIA . . . . .	12	9	747	3 204	635	1 081	2 247	6 560	87	1 500	9 460
	NORTH CAROLINA . . . . .	27	10	1 315	4 811	1 165	2 222	4 087	7 293	182	(*)	(*)
	GEORGIA . . . . .	21	9	709	2 259	623	1 155	1 836	2 520	82	378	1 347
	EAST SOUTH CENTRAL . . . . .	91	66	14 800	63 301	13 114	24 109	52 306	104 338	4 578	16 920	101 259
	TENNESSEE . . . . .	31	19	2 712	11 177	2 312	4 050	8 703	16 261	521	(*)	(*)
	ALABAMA . . . . .	49	39	11 815	51 125	10 566	19 690	42 829	86 842	4 025	12 991	81 511
	WEST SOUTH CENTRAL . . . . .	78	46	6 974	27 480	6 016	11 622	20 851	46 911	1 562	6 292	39 366
	OKLAHOMA . . . . .	12	8	853	3 375	738	1 292	2 572	5 024	259	943	5 636
	TEXAS . . . . .	50	31	5 164	19 915	4 460	8 710	15 003	35 310	1 008	4 442	28 108
	MOUNTAIN . . . . .	28	18	1 685	8 181	1 433	2 713	6 339	17 599	250	2 216	14 760
	COLORADO . . . . .	12	10	855	3 681	755	1 441	3 106	6 838	87	(*)	(*)
	PACIFIC . . . . .	171	100	10 058	50 824	8 444	16 097	39 086	80 069	5 161	10 365	68 816
	WASHINGTON . . . . .	29	12	874	4 641	757	1 435	3 587	6 563	139	966	6 008
	OREGON . . . . .	20	10	1 496	7 706	1 238	2 420	5 947	13 582	502	1 302	9 563
	CALIFORNIA . . . . .	122	78	7 688	38 477	6 449	12 242	29 552	59 924	4 520	8 096	53 244
333	PRIMARY NONFERROUS METAL: TOTAL . . .	112	100	47 086	265 903	37 496	75 665	200 571	700 431	118 818	53 544	597 094
	NORTHEAST . . . . .	20	17	8 651	47 126	6 449	13 224	33 603	85 979	29 285	10 271	96 492
	NEW YORK . . . . .	7	4	2 235	12 779	1 781	3 695	10 012	24 476	15 358	3 362	38 160
	NORTH CENTRAL . . . . .	15	13	3 690	19 269	2 827	5 715	13 481	40 500	29 948	2 940	24 380
	ILLINOIS . . . . .	5	5	1 561	7 188	1 237	2 327	5 451	12 160	311	1 718	14 695
	SOUTH ATLANTIC . . . . .	6	5	2 726	16 271	2 044	4 181	11 378	48 095	(D)	3 032	31 072
	EAST SOUTH CENTRAL . . . . .	4	4	3 221	19 738	2 538	5 197	14 981	55 082	(D)	3 341	32 667
	WEST SOUTH CENTRAL . . . . .	20	19	12 297	72 983	10 157	20 886	56 641	239 343	5 388	16 138	173 545
	TEXAS . . . . .	12	12	6 822	38 005	5 557	11 307	29 217	125 479	3 272	9 037	93 900
	MOUNTAIN . . . . .	33	29	10 616	55 340	8 759	17 199	43 161	118 071	12 533	10 445	128 204
	PACIFIC . . . . .	14	13	5 885	35 176	4 722	9 263	27 326	113 361	20 337	7 376	110 732
	OREGON . . . . .	4	4	1 333	8 037	1 118	2 221	6 575	22 265	19 544	(*)	(*)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
334	SECONDARY NONFERROUS METALS, TOTAL <sup>2</sup> .	387	152	14 441	75 669	10 813	21 194	46 869	147 262	5 355	15 155	135 230
335	NONFERROUS ROLLING AND DRAWING, TOTAL	711	473	160 272	885 297	123 225	250 129	632 388	1 726 001	196 022	(*)	(*)
	NEW ENGLAND . . . . .	138	98	30 984	158 994	24 351	48 597	113 720	297 281	20 707	(*)	(*)
	MASSACHUSETTS . . . . .	43	26	6 814	31 813	5 104	10 252	21 009	55 894	3 565	(*)	(*)
	RHODE ISLAND . . . . .	26	20	6 086	29 168	4 868	10 138	20 786	53 584	1 678	(*)	(*)
	CONNECTICUT . . . . .	59	44	16 883	91 818	13 527	26 442	68 308	174 505	14 190	(*)	(*)
	MIDDLE ATLANTIC . . . . .	217	139	44 135	241 357	32 827	66 208	166 118	449 826	34 491	(*)	(*)
	NEW YORK . . . . .	88	47	15 658	85 180	11 615	23 387	59 697	163 553	20 675	(*)	(*)
	NEW JERSEY . . . . .	73	49	14 614	83 278	11 235	23 098	59 896	166 235	7 202	(*)	(*)
	PENNSYLVANIA . . . . .	56	43	13 863	72 899	9 977	19 723	46 525	120 038	6 614	(*)	(*)
	NORTH CENTRAL . . . . .	200	138	48 722	274 665	37 348	75 748	195 452	565 889	55 497	(*)	(*)
	OHIO . . . . .	46	31	13 370	74 556	10 345	20 250	53 686	160 414	25 102	(*)	(*)
	INDIANA . . . . .	33	22	11 365	62 290	8 643	17 734	44 119	117 465	12 689	(*)	(*)
	ILLINOIS . . . . .	50	37	10 626	62 085	8 028	16 984	44 029	128 439	9 700	(*)	(*)
	WISCONSIN . . . . .	5	4	1 702	9 766	1 499	2 922	7 825	23 021	182	(*)	(*)
	SOUTH ATLANTIC . . . . .	44	30	11 253	65 983	8 448	17 442	45 852	110 789	41 044	(*)	(*)
	GEORGIA . . . . .	6	6	600	2 381	437	931	1 495	3 762	872	(*)	(*)
	FLORIDA . . . . .	11	7	639	2 632	503	1 174	1 885	6 162	428	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	23	16	8 993	49 923	7 639	15 205	41 381	117 587	36 119	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	19	12	1 166	5 463	937	2 104	3 899	13 710	708	(*)	(*)
	WEST . . . . .	70	40	15 019	88 912	11 675	24 825	65 966	170 919	7 456	(*)	(*)
336	NONFERROUS FOUNDRIES, TOTAL . . . . .	1 965	628	62 159	318 666	51 250	99 838	238 291	470 741	22 336	73 487	476 969
	NORTHEAST . . . . .	631	185	18 521	91 547	15 430	30 130	69 398	133 342	5 725	21 411	132 033
	MASSACHUSETTS . . . . .	93	22	1 690	7 190	1 469	2 919	5 752	10 793	414	1 681	9 477
	RHODE ISLAND . . . . .	19	3	1 192	635	165	317	540	943	86	150	797
	CONNECTICUT . . . . .	64	19	1 810	9 337	1 475	2 984	6 784	12 663	541	2 087	13 263
	NEW YORK . . . . .	193	63	5 407	26 416	4 437	8 394	19 184	38 775	2 123	6 759	40 285
	EAST NORTH CENTRAL . . . . .	718	268	29 837	160 388	24 464	47 916	118 117	232 883	8 489	39 137	262 723
	OHIO . . . . .	214	81	10 029	54 439	8 135	15 752	39 697	76 074	2 108	14 006	96 687
	INDIANA . . . . .	64	23	2 329	12 533	1 829	3 484	8 713	15 288	1 594	5 791	32 711
	ILLINOIS . . . . .	190	69	7 017	36 400	5 976	11 484	27 767	52 098	1 476	8 671	56 354
	MICHIGAN . . . . .	175	65	7 529	42 554	5 992	12 150	30 619	69 051	2 416	6 808	54 368
	WISCONSIN . . . . .	75	30	2 933	14 462	2 532	5 046	11 321	20 372	895	3 858	22 600
	WEST NORTH CENTRAL . . . . .	114	46	4 146	20 113	3 489	6 432	15 849	31 297	(D)	3 655	21 097
	MINNESOTA . . . . .	30	13	921	4 558	779	1 555	3 591	5 992	364	1 494	9 142
	IOWA . . . . .	22	6	406	1 667	343	627	1 289	2 508	96	413	2 207
	MISSOURI . . . . .	45	22	2 562	12 807	2 150	3 836	10 171	21 015	810	(*)	(*)
	SOUTH ATLANTIC . . . . .	68	12	889	3 288	734	1 361	2 483	4 948	(D)	723	4 280
	MARYLAND . . . . .	8	2	144	605	118	212	452	786	67	(*)	(*)
	FLORIDA . . . . .	22	3	175	591	154	291	495	1 089	322	290	1 605
	EAST SOUTH CENTRAL . . . . .	27	7	817	4 313	629	1 279	2 972	4 302	(D)	363	1 426
	ALABAMA . . . . .	11	4	553	3 403	414	874	2 274	2 387	(D)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	82	17	1 301	5 319	1 081	1 940	4 079	9 407	742	1 367	7 878
	ARKANSAS . . . . .	7	3	302	1 475	224	414	1 000	3 067	(D)	444	3 022
	OKLAHOMA . . . . .	12	3	123	480	105	212	388	801	64	213	1 329
	TEXAS . . . . .	59	10	839	3 225	718	1 259	2 574	5 341	603	658	3 313
	MOUNTAIN . . . . .	28	8	419	1 718	342	658	1 329	2 625	382	241	1 363
	COLORADO . . . . .	20	5	307	1 294	253	493	997	2 035	280	(*)	(*)
	PACIFIC . . . . .	297	85	6 229	31 980	5 081	10 122	24 064	51 937	2 217	6 587	46 165
	CALIFORNIA . . . . .	264	81	5 941	30 639	4 839	9 689	22 996	50 207	2 119	6 085	43 093
339	PRIMARY METAL INDUSTRIES, NEC, TOTAL	911	358	52 183	301 065	40 989	78 273	218 525	441 767	22 262	(1)	(1)
	NEW ENGLAND . . . . .	81	26	5 561	31 773	4 235	8 394	22 236	45 503	2 041	(1)	(1)
	MASSACHUSETTS . . . . .	27	14	3 900	22 859	2 960	5 921	15 970	32 291	1 558	(1)	(1)
	CONNECTICUT . . . . .	44	11	1 513	8 152	1 162	2 265	5 782	12 276	453	(1)	(1)
	MIDDLE ATLANTIC . . . . .	194	81	10 944	57 702	8 688	16 552	42 189	81 993	5 915	(1)	(1)
	NEW YORK . . . . .	71	28	4 236	22 014	3 388	6 550	16 634	24 395	1 539	(1)	(1)
	NEW JERSEY . . . . .	51	18	1 517	7 997	1 151	2 321	5 453	15 645	1 062	(1)	(1)
	PENNSYLVANIA . . . . .	72	35	5 191	27 691	4 149	7 681	20 102	41 953	3 314	(1)	(1)
	EAST NORTH CENTRAL . . . . .	399	173	30 324	181 881	24 051	45 498	134 150	262 826	11 492	(1)	(1)
	OHIO . . . . .	122	49	8 342	49 062	6 645	12 465	36 085	64 453	2 080	(1)	(1)
	INDIANA . . . . .	32	13	3 119	17 851	2 562	4 633	13 698	26 877	2 012	(1)	(1)
	ILLINOIS . . . . .	77	43	5 932	35 466	4 767	9 000	25 804	55 902	2 387	(1)	(1)
	MICHIGAN . . . . .	140	54	6 250	38 675	5 012	9 648	28 983	57 916	1 844	(1)	(1)
	WISCONSIN . . . . .	28	14	6 681	40 827	5 065	9 752	29 580	57 678	3 169	(1)	(1)

See footnotes at end of table.



# PRIMARY METAL INDUSTRIES

33-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954				
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)		
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
339	PRIMARY METAL INDUSTRIES, NEC.—CON.													
	WEST NORTH CENTRAL. . . . .	29	6	358	2 004	277	552	1 293	3 388	338	(1)	(1)	4	339
	MINNESOTA. . . . .	10	2	134	774	102	203	447	1 567	184	(1)	(1)	41	339
	MISSOURI. . . . .	11	3	148	845	113	224	578	1 197	114	(1)	(1)	43	339
	SOUTH ATLANTIC. . . . .	15	2	169	809	121	209	476	1 301	98	(1)	(1)	5	339
	MARYLAND. . . . .	7	1	108	485	81	132	277	944	12	(1)	(1)	52	339
	EAST SOUTH CENTRAL. . . . .	11	6	470	2 527	376	687	1 803	4 615	210	(1)	(1)	6	339
	WEST SOUTH CENTRAL. . . . .	36	16	1 007	5 297	757	1 588	3 568	9 851	480	(1)	(1)	7	339
	OKLAHOMA. . . . .	6	1	161	731	112	223	438	1 478	(0)	(1)	(1)	73	339
	TEXAS. . . . .	26	14	771	4 183	582	1 245	2 863	7 609	369	(1)	(1)	74	339
	MOUNTAIN. . . . .	5	...	18	94	13	22	65	443	29	(1)	(1)		
	PACIFIC. . . . .	141	48	3 332	18 978	2 471	4 771	12 745	31 847	(D)	(1)	(1)		
	OREGON. . . . .	7	3	157	943	125	254	662	1 422	36	(1)	(1)		
	CALIFORNIA. . . . .	130	43	3 108	17 653	2 296	4 429	11 829	29 902	1 565	(1)	(1)		

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>1</sup>The 1954 figures are not comparable because of revisions in the Standard Industrial Classification system. However, total employment and value added data are shown below for the combination of Industry groups 293, (Old SIC) Coke and by products; 331, Steel rolling and finishing; and 339, Primary metal industries, nec. These data are not strictly comparable because: (a) 1954 data include establishments producing nonferrous wire and cable which are included in Industry group 335 in 1958 for which employment in 1958 totaled 38,425; and (b) 1958 data include establishments producing nails and spikes which were included in Industry group 348 in 1954 for which employment in 1958 totaled 3,445:

Region and State	1958		1954	
	All employees	Value added by manufacture, adjusted	All employees	Value added by manufacture, unadjusted
	(number)	(\$1,000)	(number)	(\$1,000)
United States, total....	630,368	7,304,686	707,002	6,313,828
Middle Atlantic.....	225,432	2,341,535	263,950	1,979,750
Pennsylvania.....	181,541	1,882,350	202,695	1,567,544
East North Central.....	250,421	2,989,754	284,037	2,692,708
Ohio.....	101,729	1,175,804	123,113	1,099,492
Indiana.....	61,507	818,268	66,928	647,855
Michigan.....	27,251	333,628	32,022	334,063
West North Central.....	9,538	111,133	9,792	73,517
South.....	90,596	1,197,557	89,403	950,110
All other.....	54,381	664,707	59,820	617,743

<sup>2</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

	Primary metal industries	Steel rolling and finishing	Iron and steel foundries	Primary nonferrous metal	Secondary nonferrous metals	Nonferrous rolling and drawing	Nonferrous foundries	Primary metal indus- tries, nec
	(SIC 33)	(SIC 331)	(SIC 332)	(SIC 333)	(SIC 334)	(SIC 335)	(SIC 336)	(SIC 339)
Number of establishments, total.....	6,446	712	1,648	112	387	711	1,965	911
With 1-19 employees.....	3,035	150	510	12	235	238	1,337	553
With 20-99 employees.....	1,948	165	680	17	119	203	505	259
With 100 or more employees.....	1,463	397	458	83	33	270	123	99
Proprietors and working partners.....Number..	2,282	91	558	10	125	83	1,111	304
All employees:								
Number (average for the year).....	1,096,359	578,185	182,033	47,086	14,441	160,272	62,159	52,183
Payroll.....\$1,000..	6,303,447	3,570,778	886,069	265,903	75,669	885,297	318,666	301,065
Production workers:								
Number (average for the year).....	886,594	469,579	153,242	37,496	10,813	123,225	51,250	40,989
March.....	888,174	465,799	159,332	39,573	10,619	120,775	50,531	41,545
May.....	849,462	448,141	148,887	36,670	10,380	117,100	48,824	39,460
August.....	874,815	467,752	145,101	36,188	10,861	123,697	51,020	40,196
November.....	934,760	496,756	159,648	37,545	11,467	131,231	55,327	42,786
Man-hours.....1,000..	1,676,937	868,076	283,762	75,665	21,194	250,129	99,838	78,273
January-March.....do....	416,721	211,412	74,017	20,578	5,180	61,027	24,221	20,286
April-June.....do....	394,259	200,976	67,485	18,168	5,091	59,877	23,840	18,822
July-September.....do....	403,445	212,165	65,832	17,659	5,083	60,380	24,476	17,850
October-December.....do....	462,222	243,419	76,428	19,260	5,840	68,845	27,301	21,129
Wages.....\$1,000..	4,713,957	2,694,452	682,861	200,571	46,869	632,388	238,291	218,525
Value added by manufacture, adjusted.....do....	11,671,341	6,862,919	1,322,220	700,431	147,262	1,726,001	470,741	441,767
Cost of fuels consumed.....do....	743,509	542,112	63,433	57,410	7,528	35,688	11,562	25,776
Cost of electricity purchased.....do....	366,960	187,917	36,673	75,292	2,632	43,161	9,457	11,828
Manufacturers' inventories:								
Beginning of year, total.....do....	5,370,848	3,376,300	302,354	417,255	95,809	884,592	93,175	201,363
Finished products.....do....	1,337,928	753,016	82,376	165,360	50,472	245,791	19,212	21,701
Work-in-process.....do....	1,506,794	752,795	74,859	158,269	22,481	398,185	27,113	73,092
Materials, supplies, fuel, etc.....do....	2,526,126	1,870,489	145,119	93,626	22,856	240,616	46,850	106,570
End of year, total.....do....	5,450,503	3,446,252	277,468	405,440	105,253	955,175	92,673	168,242
Finished products.....do....	1,409,728	810,968	80,902	159,240	48,600	273,441	18,054	18,523
Work-in-process.....do....	1,571,173	814,135	66,208	158,356	29,191	414,321	30,214	58,748
Materials, supplies, fuels, etc.....do....	2,469,602	1,821,149	130,358	87,844	27,462	267,413	44,405	90,971
Expenditures for plant and equipment, total....do....	1,457,516	1,018,195	61,117	120,594	5,636	200,841	25,404	25,729
New, total.....do....	1,427,619	1,006,557	56,269	118,818	5,355	196,022	22,336	22,262
New structures and additions to plant.....do....	527,975	394,692	13,953	44,888	1,432	62,543	5,337	5,130
New machinery and equipment.....do....	899,644	611,865	42,316	73,930	3,923	133,479	16,999	17,132
Used plant and equipment.....do....	29,897	11,638	4,848	1,776	281	4,819	3,068	3,467

Note: Detailed figures may not add to totals because of independent rounding.



# Blast Furnaces, Steel Works, and Rolling and Finishing Mills

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

3312--Blast Furnaces (Including Coke Ovens),  
Steel Works, and Rolling Mills

3313--Electrometallurgical Products

3315--Steel Wire Drawing and Steel Nails and  
Spikes

3316--Cold Rolled Sheet, Strip and Bars

3317--Steel Pipe and Tubes

## 3312--Blast Furnaces (Including Coke Ovens), Steel Works and Rolling Mills

This industry comprises establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. For a detailed list of products of Industry 3312, refer to table 6A.

Included in this industry are all establishments engaged in the manufacture of blast furnace ferroalloys. However, establishments which manufacture ferro or nonferrous additive alloys by electrometallurgical process are classified in Industry 3313, Electrometallurgical Products. Also, establishments which draw wire from purchased rod and bar; establishments which perform only cold rolling, drawing or finishing operations; and establishments which produce welded, seamless, and heavy riveted pipe from purchased materials are not included in Industry 3312, but are included in Industry 3315, Steel Wire Drawing; Industry 3316, Cold Finishing of Steel Shapes; and Industry 3317, Steel Pipe and Tubes, respectively.

Industry 3312 as classified under the 1957 edition of the Standard Industrial Classification Manual differs from the previous classification in three respects: (1) beehive and byproduct coke ovens which were previously classified in Industries 2931 and 2932, respectively, are now classified in this industry; (2) blast furnaces which were previously classified in Industry 3311 are now included in this industry; and (3) establishments primarily engaged in manufacturing seamless pipe were previously classified in Industry 3312 regardless of whether they produced pipe from materials produced at the establishment or from purchased materials. In the 1957 edition of the Standard Industrial Classification Manual, establishments engaged in the manufacture of seamless pipe from materials produced in the same establishment are classified in Industry 3312 but those producing seamless pipe from purchased materials are classified in Industry 3317, Steel Pipe and Tubes.

For the 1954 Census of Manufactures, as for previous Censuses, and the 1953 and previous Annual Surveys of Manufactures, separate establishment reports were collected for (1) coke ovens, (2) blast furnaces, and (3) steel works and rolling mills including those at a single loca-

tion. These separate reports were the means for compiling separate industry data for Industries 2932, 3311 and 3312, respectively. Separate data were also reported for Industry 2931, Beehive Coke Ovens.

Effective with the 1955 Annual Survey of Manufactures, and including the 1958 Census of Manufactures, single, rather than separate, reports were collected for coke ovens, blast furnaces and steel works and rolling mills operated at a single physical location. This change results in very significant differences between the 1954 and 1958 Censuses for those products, e.g., coke and pig iron, which represent intermediate rather than finished products. In the previous system, most of the coke produced was reported as interplant transfers to company-owned blast furnaces, and in like manner, most of the pig iron produced was reported as interplant transfers to company-owned steel mills. In treating coke ovens, blast furnaces and steel mills as a single establishment, these products and others are reported as "produced and consumed in the same plant" rather than as transfers between plants.

In like manner, data on cost of materials, fuel, etc., are not comparable for the 1954 and 1958 Censuses. In the 1954 Census of Manufactures, most coke was reported as a purchased fuel by Industry 3311 and pig iron as a material purchased and consumed in Industry 3312. The general statistics items such as employment, man-hours, wages paid, value added by manufacture, capital expenditures, etc., are, however, comparable between Censuses.

However, in spite of the change in collection procedure described above, total cost of materials and the total value of shipments in Industry 3312 include extensive duplication resulting from the use of the products of some establishments as materials by others. Some quantities of coke are transferred to blast furnaces which have no affiliated coke ovens, and considerable quantities of pig iron are transferred from blast furnaces to partially integrated mills. In addition, steel ingots, semifinished shapes and finished shapes and forms are transferred from one establishment to another for further processing. The value of such shipments appears twice in the total value of shipments; and a corresponding duplication enters into the total cost of materials, etc. This duplication does not exist in the data on value added by manufacture.

As a means of developing a net value of shipments figure, the cost of steel shapes received by establishments in Industry 3312 was collected as a separate materials consumed item, and, as shown in table 7A, totaled approximately \$1.7 billion. In addition, the cost of pig iron consumed in this industry totaled approximately \$0.3 billion. Also, the cost of coke used as a fuel in this industry totaled \$0.2 billion. On this basis, the value of materials shipped or transferred between plants within this industry totaled approximately \$2.2 billion. Subtracting this value from the total value of shipments of approximately \$13.6 billion gives a net value (excluding duplication) of \$11.4 billion. A similar adjustment to the total cost of materials, supplies, etc. figure provides a net cost figure of \$4,865 million. Adjusting the cost of fuels on this same basis provides a net cost of fuels of \$320 million.



As stated in the opening paragraph above, this industry includes a variety of operations ranging from coke ovens through steel producing facilities to fabricating activities. Accordingly, in order to provide a measure of the relative importance of these departments data were collected on man-hours worked and production worker wages paid for each of several departments. The resulting data are shown in table 9A.

Also, based on the data reported for these various departmental operations it was possible to further classify the establishments of this industry into three "subindustries," i.e., fully integrated establishments, partially integrated establishments, and nonintegrated establishments. For purposes of this classification system an establishment was defined as follows: fully integrated if the establishment consisted of coke ovens, blast furnaces, steel furnaces, and rolling and finishing mills; partially integrated if the establishment consisted of steel furnaces and either rolling and finishing mills or a forging department; nonintegrated for all other establishments including beehive coke ovens, byproduct coke ovens operated independently of blast furnaces and steel departments, merchant blast furnaces and establishments with hot rolling and finishing operations. Some partially integrated works also have blast furnaces.

In a few cases, operations which are in fact fully integrated are classified as partially integrated or nonintegrated because separate reports were collected either because the operations are conducted in different cities or counties, or the company treats the operations separately for their own administrative reasons.

The subindustry data shown in tables 3, 4, 5B, 7A and 9A are based on this system of classification.

The 1958 Census obtained data on shipments of steel mill shapes at broad product class levels only. This is the source of the data in table 6A described "As reported in Census of Manufactures." More detailed product data were obtained on Annual Survey Form MA-33B, and published in Current Industrial Reports (previously identified as Facts for Industry) Series M33B, Steel Mill Products. These data are shown in table 6B.

Annual Survey Form MA-33B obtained data on the total production of steel at three broad levels of output: ingots; semifinished shapes and forms (blooms, billets, wire rods, skelp, etc.); and finished mill shapes and forms. For each of these groups, the steel mills were requested to report production in the form in which the shape (a) passed from one group to the next, (b) was shipped from the establishment, or (c) was consumed in the establishment in the manufacture of fabricated products. The production figures shown in table 6B include data on production derived from this method of reporting. Production figures shown for ingots represent the total production of ingots. Production figures shown for finished shapes and forms are the tonnages of these shapes produced at the steel mill for shipments (either outside the steel industry, or to other steel mills) or for consumption in the manufacture of fabricated products. The production of all semifinished shapes and forms combined represent total production of semifinished shapes and forms for sale and transfer and also for use in the same plant in the manufacture of either other steel mill shapes or fabricated products.

Net shipments of steel products (as derived from Survey Form MA-33B) including both the shipments to establish-

ments outside the steel industry and the amounts consumed in the steel mills in the production of fabricated products and for maintenance, repair, and operating supplies, are shown in table 6D.

The figures on steel mill shapes shown in tables 6A, 6B, 6C, and 6D include the manufacture of these products in separate cold rolling and drawing establishments, wire drawing plants, and pipe mills as well as steel mills. The receipts of steel at these plants have been taken into account in deriving the "net shipment" figures shown in table 6D.

While the primary products of the industry include a broad range of products, the establishments tend to group themselves into specific product classes within the industry. The extent of this specialization is indicated in table 8. Approximately 30 percent of the total value added by manufacture are represented by plants specializing in hot rolled sheet and strip, including tin mill products; and 23 percent in hot rolled bars and bar shapes, plates, structural shapes and piling.

Data on shipments of pig iron, by grade, are published by the Bureau of Mines, in its Minerals Yearbook. These data are reprinted in table 6E and differ from the data reported in the Census in that they include the tonnages of pig iron produced and consumed in the same establishment. Other differences of minor consequence also exist.

### 3313—Electrometallurgical Products

This industry comprises establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes, including high percentage ferroalloys and high percentage nonferrous additive alloys. Ferroalloys and other additives produced in blast furnaces are included in Industry 3312, Blast Furnaces and Steel Mills.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electrometallurgical Products Industry in 1958 totaled \$399 million. This included shipments of electrometallurgical products (primary products) valued at \$355 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$9 million.

This industry's shipments of electrometallurgical products (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent.

Industry 3313 shipments of electrometallurgical products (primary products) in 1958 represented 76 percent (coverage ratio) of these products valued at \$468 million shipped by all industries. In 1954, the coverage ratio was 68 percent.

In 1958, establishments in Industries 3312 and 3313 accounted for 96 percent of the \$468 million shipments of electrometallurgical products. Industry 3313 accounted for 76 percent and Industry 3312 accounted for 20 percent of this total.



**3315--Steel Wire Drawing and Steel Nails and Spikes**

This industry comprises establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire and which may be engaged in the further manufacture of products made from wire; and those primarily engaged in manufacturing steel nails and spikes from purchased materials. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in Industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in Group 335. For a detailed list of products of Industry 3315, refer to table 6A, product codes 3315111 to 3315998.

This industry as classified under the 1957 edition of the Standard Industrial Classification Manual represents a new industry, the products of which were previously included in Industry 3392, Wire Drawing; and Industry 3481, Nails and Spikes. These industries in the previous classification system also included establishments producing comparable products of nonferrous materials.

The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Value of shipments and other receipts of the Steel Wire Drawing Industry in 1958 totaled \$452 million. This included shipments of steel wire and fabricated wire products, n.e.c. (primary products) valued at \$387 million, shipments of other products (secondary products) valued at \$54 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$11 million.

This industry's shipments of steel nails and fabricated wire products, n.e.c. (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary).

While the primary products of the industry include steel wire, steel nails and spikes, and fabricated wire products, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 50 percent of the total industry shipments are represented by plants specializing in steel wire, 19 percent in non-insulated ferrous wire rope, cable and strand, and 16 percent in steel nails and spikes.

Industry 3315 shipments of steel wire, steel nails and spikes, and fabricated wire products, n.e.c. (primary products) in 1958 represented 26 percent (coverage ratio) of these products valued at \$1,491 million shipped by all industries.

In 1958, establishments in Industries 3312, 3315, and 3481 accounted for 78 percent of the \$1,491 million shipments of steel wire, steel nails and spikes, and fabricated wire products, n.e.c. Industry 3481 accounted for approximately 29 percent of this total and Industries 3315 and 3312 accounted for 26 and 23 percent, respectively.

The value of shipments and cost of materials data for this industry contain an indeterminate amount of duplication. This duplication results from the fact that this industry includes both establishments which draw wire and those manufacturing steel nails and spikes from purchased materials. As indicated in table 1A, those establishments now included in this industry, which were previously included in Industry 3481, Nails and Spikes, account for approximately 15 percent of the adjusted value added by manufacture. However, since steel wire is also significantly produced in Industry 3312 (see table

5B) the amount of duplication involved is less than 15 percent and is probably closer to 5 percent.

**3316--Cold Rolled Sheet, Strip, and Bars**

This industry comprises establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets; (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are included in Industry 3312, Blast Furnaces and Steel Mills. For a detailed list of products of Industry 3316, refer to table 6A, product codes 3316701 to 3316801.

This industry as classified under the 1957 edition of the Standard Industrial Classification Manual represents a new industry, the products of which were previously included in Industry 3399, Primary Metal Industries, N.E.C. Separate data are shown in table 1 for 1958 for Industries 3316; 3392, Nonferrous Forgings; and 3399, Primary Metal Industries, N.E.C. Each of these industries were previously included in Industry 3399. Also, data are shown for 1958 and earlier years for Industry 3399 as defined in the 1945 SIC edition.

Value of shipments and other receipts of the Cold Finishing of Steel Shapes Industry in 1958 totaled \$478 million. This included shipments of cold rolled sheet, strip, and bars (primary products) valued at \$450 million, shipments of other products (secondary products) valued at \$22 million, and miscellaneous receipts (mainly sales of scrap) of \$6 million.

The industry's shipments of cold rolled sheet, strip, and bars (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary).

While the primary products of the industry include both cold rolled sheet and strip and cold finished bars and bar shapes, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 56 percent of the total industry shipments are represented by plants specializing in cold rolled steel sheet and strip; and 44 percent in cold finished steel bars and bar shapes.

Industry 3316 shipments of cold rolled steel sheet, strip, and bars (primary products) in 1958 represented 18 percent (coverage ratio) of these products valued at \$2,430 million shipped by all industries.

In 1958, establishments in Industries 3312 and 3316 accounted for 99 percent of the \$2,430 million shipments of cold rolled steel sheet, strip, and bars. Industry 3312 accounted for 81 percent of this total and Industry 3316 accounted for 18 percent.

The coverage ratio varies significantly for the primary products of Industry 3316. The coverage ratio for cold finished steel bars and shapes was 60 percent but the ratio for cold rolled steel sheet and strip was only 12 percent.

**3317--Steel Pipe and Tubes**

This industry comprises establishments primarily engaged in the production of welded or seamless steel pipe and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel,



including steel skelp or steel blanks, tube rounds, or pierced billets are classified in Industry 3312, Blast Furnaces and Steel Mills.

This industry as classified under the 1957 edition of the Standard Industrial Classification Manual differs from the previous classification in two respects: (1) the code number has been changed from 3393 to 3317; (2) establishments primarily engaged in manufacturing seamless pipe were previously classified in Industry 3312 regardless of whether they produced such pipe from materials produced at the establishment or from purchased materials. In the 1957 edition of the SIC Manual establishments engaged in the manufacture of seamless pipe from materials produced in the same establishment are classified in Industry 3312 but those producing seamless pipe from purchased materials are classified in Industry 3317.

Value of shipments and other receipts of the Steel Pipe and Tubes Industry in 1958 totaled \$781 million. This included shipments of steel pipe and tubes (primary prod-

ucts) valued at \$692 million, shipments of other products (secondary products) valued at \$63 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$26 million.

This industry's shipments of steel pipe and tubes (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent.

Industry 3317 shipments of steel pipe and tubes (primary products) in 1958 represented 40 percent (coverage ratio) of these products valued at \$1,724 million shipped by all industries.

In 1958, establishments in Industries 3312 and 3317 accounted for 98 percent of the \$1,724 million shipments of steel pipe and tubes. Industry 3312 accounted for 58 percent of this total and Industry 3317 accounted for 40 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS: SIC 331

Value Added by Manufacture by State: 1958

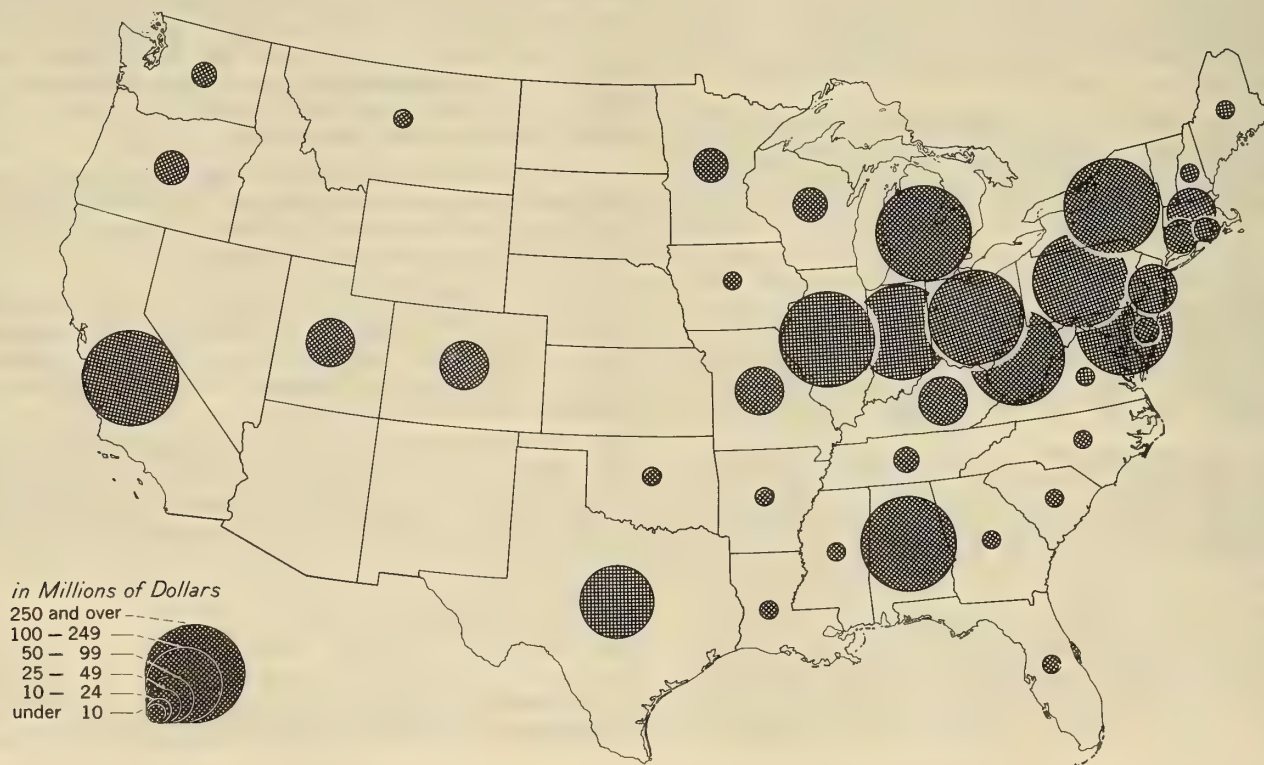




Table 1.—General Statistics for the United States. 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours	Wages (\$1,000)						
3312	Blast furnaces and steel mills:														
	1958.....	148	291	260	511,392	3,183,483	417,216	765,941	2,415,959	6,062,227	( <sup>9</sup> )	( <sup>9</sup> )	950,056	(NA)	(NA)
(Old SIC 2931, 2932, 3311, 3312)	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	616,792	3,645,252	513,039	990,837	2,886,108	7,204,822	( <sup>9</sup> )	( <sup>9</sup> )	1,423,609	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	644,499	3,475,508	545,534	1,042,231	2,806,705	7,135,612	( <sup>9</sup> )	( <sup>9</sup> )	1,098,027	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	621,540	3,269,732	527,524	1,059,870	2,659,921	6,773,325	( <sup>9</sup> )	( <sup>9</sup> )	572,177	(NA)	(NA)
	1954.....	(NA)	(NA)	(NA)	553,850	2,581,270	470,823	883,057	2,059,515	5,055,409	( <sup>9</sup> )	( <sup>9</sup> )	580,530	(NA)	(NA)
	1947.....	(NA)	(NA)	(NA)	568,915	1,804,157	499,709	1,006,733	1,516,321	2,844,595	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1939.....	(NA)	(NA)	(NA)	460,128	749,129	410,134	(NA)	630,517	1,320,392	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1937.....	(NA)	(NA)	(NA)	(NA)	(NA)	481,721	(NA)	788,529	1,588,359	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1929 <sup>10</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	400,389	(NA)	697,904	1,615,306	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
3313 (old SIC 3313)	Electrometallurgical products:														
	1958.....	19	37	35	12,689	71,883	9,304	18,961	48,988	178,880	221,509	399,122	16,969	91	76
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,491	83,256	12,053	24,249	59,598	208,264	280,824	480,085	22,315	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,081	80,822	13,086	26,617	61,059	213,639	298,676	491,681	24,724	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,161	66,302	11,626	23,443	50,306	176,422	227,935	417,933	24,495	(NA)	(NA)
	1954.....	17	31	29	11,361	51,332	8,834	17,614	36,895	118,785	157,957	272,751	22,313	92	68
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,570	65,621	12,965	(NA)	51,476	145,209	255,948	401,157	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,968	52,991	10,821	(NA)	41,496	107,452	204,965	312,417	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,124	10,874	(NA)	39,338	124,990	182,317	307,307	(NA)	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,304	37,567	8,627	(NA)	28,699	115,885	126,275	242,160	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,702	29,731	7,168	(NA)	22,630	67,305	86,831	154,136	(NA)	(NA)	(NA)
	1947.....	10	19	(NA)	9,628	29,285	8,175	16,678	23,449	55,493	95,411	150,904	(NA)	88	(NA)
	1939 <sup>10</sup> .....	(NA)	18	(NA)	(NA)	(NA)	2,774	(NA)	4,234	15,868	25,119	40,987	(NA)	(NA)	(NA)
3315	Steel wire drawing:														
	1958 <sup>10</sup> .....	151	170	103	19,250	110,184	15,129	29,147	78,432	196,200	260,490	452,062	11,980	88	26
3316	Cold finishing of steel shapes:														
	1958.....	58	78	63	10,943	67,084	8,528	16,039	47,225	141,516	338,495	477,824	12,419	95	18
	1954 <sup>10</sup> .....	(NA)	75	(NA)	10,685	51,600	8,535	16,919	37,603	(NA)	(NA)	(NA)	7,498	(NA)	(NA)
3316	1958.....	58	76	65	10,945	67,084	8,528	16,039	47,225	141,516	338,495	477,824	12,419	95	18
3392	1958 <sup>11</sup> .....	27	29	20	5,932	34,634	4,548	9,024	25,107	40,963	68,697	115,048	3,134	86	64
3399	1958 <sup>11</sup> .....	567	581	149	9,795	52,717	7,359	14,813	35,088	90,656	50,095	141,172	5,615	98	87
(Old SIC 3399)	1958 <sup>12</sup> .....	(NA)	688	232	26,670	154,435	20,435	39,876	107,420	273,135	457,287	734,044	21,168	(NA)	(NA)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,676	166,069	24,766	50,256	118,029	306,895	527,494	836,581	(NA)	92	22
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,409	162,605	23,530	50,555	117,468	342,040	549,392	876,588	8,861	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,873	142,892	21,315	46,429	103,802	295,771	506,783	793,723	(NA)	(NA)	(NA)
	1954.....	545	574	203	25,060	116,330	19,723	40,195	83,154	210,811	328,097	538,576	14,864	92	20
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	30,145	147,716	24,442	52,547	109,311	303,206	447,008	750,214	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,226	120,373	21,304	45,081	88,954	242,922	382,920	625,842	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	25,546	113,899	21,077	46,191	85,260	251,328	381,053	632,381	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,287	85,557	17,325	36,920	62,374	174,755	316,920	491,675	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,823	64,366	14,299	27,907	46,351	111,667	185,199	296,866	(NA)	(NA)	(NA)
	1947.....	348	377	157	22,135	72,250	18,078	38,120	52,785	138,642	201,021	339,663	11,808	94	26
	1939 <sup>10</sup> .....	(NA)	103	(NA)	(NA)	(NA)	6,901	(NA)	10,094	32,263	50,233	82,496	(NA)	(NA)	(NA)
3317 (old SIC 3393)	Steel pipe and tubes: <sup>13</sup>														
	1958.....	112	136	101	23,911	138,144	19,402	37,988	103,848	284,096	496,141	780,684	15,133	92	40
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,391	150,712	21,780	44,342	115,829	302,690	524,849	815,857	22,555	88	26
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	25,719	140,865	21,346	44,599	109,436	293,155	477,406	764,890	15,898	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,897	125,572	20,078	42,560	98,421	263,817	410,151	661,699	15,549	(NA)	(NA)
	1954.....	78	88	69	22,085	108,374	18,388	37,473	83,472	207,643	330,309	535,772	9,134	91	30
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,535	133,624	22,170	45,768	103,210	238,306	374,726	613,032	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,731	78,194	15,334	29,814	62,823	155,247	263,406	418,653	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,524	81,554	16,983	33,867	65,964	189,327	308,454	497,781	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,274	79,213	16,633	33,822	60,418	168,433	300,798	469,231	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,323	71,015	15,580	30,640	54,273	138,712	235,857	374,569	(NA)	(NA)	(NA)
	1947.....	(NA)	52	(NA)	15,711	52,651	13,517	(NA)	41,225	100,356	143,858	244,214	(NA)	(NA)	(NA)
	1939.....	(NA)	49	(NA)	15,794	8,370	(NA)	12,306	34,008	41,857	75,865	(NA)	(NA)	(NA)	(NA)
	1937.....	(NA)	53	(NA)	15,267	22,690	14,125	(NA)	19,436	45,140	68,629	113,769	(NA)	(NA)	(NA)
	1935.....	(NA)	48	(NA)	11,790	14,731	10,720	(NA)	11,793	31,564	42,285	73,849	(NA)	(NA)	(NA)
	1933.....	(NA)	44	(NA)	7,269	6,890	6,552	(NA)	5,580	14,136	20,821	34,957	(NA)	(NA)	(NA)
	1931.....	(NA)	51	(NA)	(NA)	(NA)	8,045	(NA)	9,890	32,750	42,291	75,041	(NA)	(NA)	(NA)
	1929.....	(NA)	50	(NA)	12,836	23,157	11,417	(NA)	18,762	54,538	70,121	124,659	(NA)	(NA)	(NA)
	1927.....	(NA)	44	(NA)	12,194	19,580	11,083	(NA)	16,066	42,407	55,779	98,186	(NA)	(NA)	(NA)
	1925.....	(NA)	42	(NA)	12,042	20,615	10,871	(NA)	17,157	35,554	59,142	94,696	(NA)	(NA)	(NA)
	1923.....	(NA)	53	(NA)	11,713	20,670	10,633	(NA)	17,705	32,857	57,966	90,823	(NA)	(NA)	(NA)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
	Steel pipe and tubes—Continued														
	1921.....	(NA)	57	(NA)	9,814	13,746	8,728	(NA)	11,234	19,569	37,093	56,662	(NA)	(NA)	(NA)
	1919.....	(NA)	50	(NA)	11,770	17,775	10,426	(NA)	14,920	30,713	51,156	81,869	(NA)	(NA)	(NA)
	1914.....	(NA)	36	(NA)	9,680	6,995	8,845	(NA)	5,750	11,359	26,296	37,655	(NA)	(NA)	(NA)
	1909.....	(NA)	28	(NA)	7,292	4,620	6,817	(NA)	3,963	7,944	22,942	30,886	(NA)	(NA)	(NA)
	1904.....	(NA)	27	(NA)	5,712	2,841	5,416	(NA)	2,473	4,654	12,747	17,401	(NA)	(NA)	(NA)
	1899.....	(NA)	19	(NA)	5,729	2,762	5,536	(NA)	2,496	5,768	15,524	21,292	(NA)	(NA)	(NA)
3312 and 3323	Blast furnaces, steel mills and steel foundries: <sup>14</sup>														
	1958.....	(NA)	(NA)	(NA)	560,525	3,438,200	457,350	840,331	2,602,737	6,446,097	( <sup>9</sup> )	( <sup>9</sup> )	969,328	(NA)	(NA)
	1957.....	(NA)	(NA)	(NA)	684,278	4,003,083	570,114	1,104,445	3,160,198	7,775,474	( <sup>9</sup> )	( <sup>9</sup> )	1,459,644	(NA)	(NA)
	1956.....	(NA)	(NA)	(NA)	714,911	3,840,603	605,839	1,167,013	3,095,422	7,729,715	( <sup>9</sup> )	( <sup>9</sup> )	1,129,794	(NA)	(NA)
	1955.....	(NA)	(NA)	(NA)	681,804	3,557,455	578,300	1,162,596	2,881,419	7,213,905	( <sup>9</sup> )	( <sup>9</sup> )	592,555	(NA)	(NA)
	1954.....	(NA)	(NA)	(NA)	608,923	2,823,575	516,478	968,741	2,238,876	5,361,095	( <sup>9</sup> )	( <sup>9</sup> )	596,956	(NA)	(NA)
	1947.....	(NA)	(NA)	(NA)	631,250	1,990,818	553,916	(NA)	1,667,357	3,107,530	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1939.....	(NA)	(NA)	(NA)	495,695	804,544	440,222	(NA)	672,459	1,410,626	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1937.....	(NA)	(NA)	(NA)	(NA)	(NA)	523,020	(NA)	850,880	1,708,791	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1935.....	(NA)	(NA)	(NA)	424,574	561,393	391,502	(NA)	480,160	951,827	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1933.....	(NA)	(NA)	(NA)	327,907	336,550	302,011	(NA)	285,894	523,984	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1931.....	(NA)	(NA)	(NA)	(NA)	(NA)	292,589	(NA)	379,780	686,914	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1929.....	(NA)	(NA)	(NA)	482,390	882,094	440,086	(NA)	764,363	1,757,593	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1927.....	(NA)	(NA)	(NA)	451,654	791,437	410,352	(NA)	679,701	1,314,818	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1925.....	(NA)	(NA)	(NA)	464,552	801,794	423,105	(NA)	697,059	1,382,859	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1923.....	(NA)	(NA)	(NA)	501,573	865,023	453,277	(NA)	744,868	1,452,803	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1921.....	(NA)	(NA)	(NA)	304,585	486,571	270,283	(NA)	378,190	587,777	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1919.....	(NA)	(NA)	(NA)	503,408	877,839	447,703	(NA)	756,382	1,420,937	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1914.....	(NA)	(NA)	(NA)	330,716	271,499	299,179	(NA)	225,212	411,050	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1909.....	(NA)	(NA)	(NA)	334,853	238,049	307,778	(NA)	203,262	430,685	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1904.....	(NA)	(NA)	(NA)	279,568	172,728	261,621	(NA)	150,731	307,486	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)
	1899.....	(NA)	(NA)	(NA)	249,615	140,441	239,489	(NA)	127,906	297,489	( <sup>9</sup> )	( <sup>9</sup> )	(NA)	(NA)	(NA)

NA Not available. <sup>r</sup>Revised.<sup>s</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3312	5,014,389	3316	102,347
3313	114,718	3317	204,325

<sup>4</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3313	200,812	157,049	3316	338,029	223,314
3315	254,649	(NA)	3317	485,307	321,462

<sup>5</sup> For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3313	360,838	271,767	3316	477,343	325,661
3315	455,752	(NA)	3317	769,023	525,788

<sup>6</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.



See Footnotes for table 1-33A

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>Cost of materials and value of shipments are not shown for industries in which these figures contain extensive duplication. See Introduction, "Duplication in cost of materials and value of products."

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>Industries 3392 and 3399 are not part of the group covered by this report. However, 1958 data are provided here so that historical data may be presented.

<sup>12</sup>The three industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

<sup>13</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>14</sup>Prior to 1939 "Steel works and rolling mills" and "Steel foundries" constituted a single industry. Separate figures for these two industries were obtained for 1937 and 1929 from special tabulations of the returns for those years. The separate industry figures for 1958-1954, 1947, 1939, 1937, and 1929 have been combined in order that statistics may be shown for other years. Data for "Steel foundries" for 1958 are shown in Chapter 33B, Iron and Steel Foundries.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3315—Steel wire drawing.....	170	103	19,250	196,200	xxx	xxx	xxx	xxx
Old Industry 3392—Wire drawing.....	102	71	15,805	165,883	207	161	54,230	566,796
Old Industry 3481—Nails and spikes.....	68	32	3,445	30,317	70	34	3,534	30,971
New Industry 3317—Steel pipe and tubes.....	136	101	23,911	284,096	xxx	xxx	xxx	xxx
Old Industry 3312—Blast furnaces and steel mills <sup>2</sup> .....	4	4	1,439	23,549	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Old Industry 3393—Steel pipe and tubes.....	132	97	22,472	260,547	132	97	22,472	260,547

<sup>1</sup>These totals may represent revisions from the preliminary figures previously published for these industries. <sup>r</sup>Revised.

<sup>2</sup>Represent establishments which produce seamless pipe from purchased materials. For years prior to 1958 such establishments were included in Industry 3312 but the 1957 edition of the SIC Manual classifies such establishments in Industry 3317 along with other establishments producing pipe and tubes from purchased materials. However, since the product data reported for steel pipe and tubes differentiated by type of pipe, e. g. standard, line, pressure, mechanical etc. rather than by method of manufacture it is possible that a few additional establishments may have been misclassified in the steel pipe and tubes industry which properly belonged in the Blast Furnaces and Steel Mills industry in the previous classification system.

<sup>3</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of the adjusted value added.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital ex- pendi- tures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3312	Blast furnaces and steel mills, total.....	291	260	511,392	3,183,483	417,216	765,941	2,415,959	6,062,227	( <sup>4</sup> )	950,056	<sup>2</sup> 553,850	<sup>2</sup> 5,014,388	<sup>2</sup> 568,915
	New England.....	8	6	3,784	23,016	2,963	5,452	16,020	29,920	( <sup>4</sup> )	3,880	<sup>3</sup> 3,949	<sup>3</sup> 29,014	238,062
	Middle Atlantic...	117	98	194,521	1,172,097	156,543	279,892	871,711	2,043,799	( <sup>4</sup> )	286,390	<sup>3</sup> 204,972	<sup>3</sup> 1,563,468	
	New York.....	18	18	27,279	164,399	21,958	40,500	124,370	301,593	( <sup>4</sup> )	15,881	<sup>3</sup> 28,763	<sup>3</sup> 256,402	
	New Jersey.....	4	4	3,316	20,122	2,577	4,918	14,730	37,758	( <sup>4</sup> )	2,187	(D)	(D)	
	Pennsylvania....	95	76	163,926	987,576	132,008	234,474	732,611	1,704,448	( <sup>4</sup> )	268,322	(D)	(D)	
	North Central....	85	84	202,654	1,280,692	167,202	305,969	980,523	2,497,233	( <sup>4</sup> )	476,494	222,957	2,160,590	<sup>2</sup> 227,609
	Ohio.....	39	38	82,748	501,486	70,641	123,793	400,643	979,211	( <sup>4</sup> )	121,886	(D)	(D)	(D)
	Indiana.....	11	11	56,338	356,636	45,637	84,247	267,869	765,896	( <sup>4</sup> )	185,147	57,333	560,219	49,980
	Illinois.....	19	19	38,345	248,583	30,499	57,564	180,562	442,602	( <sup>4</sup> )	121,071	<sup>3</sup> 38,076	<sup>3</sup> 398,439	<sup>3</sup> 27,290
	Michigan.....	8	8	17,347	123,579	14,167	28,607	94,623	219,511	( <sup>4</sup> )	36,872	20,217	238,550	(D)
	South.....	59	52	81,009	508,603	67,015	128,942	400,810	1,077,359	( <sup>4</sup> )	83,394	<sup>3</sup> 74,495	<sup>3</sup> 761,420	103,244
	West.....	22	20	29,424	199,075	23,493	45,686	146,895	413,916	( <sup>4</sup> )	99,898	<sup>3</sup> 27,535	<sup>3</sup> 245,332	
	California.....	14	14	15,605	101,888	12,558	23,722	76,580	225,725	( <sup>4</sup> )	(D)	<sup>3</sup> 14,912	<sup>3</sup> 141,013	
3313	Electrometallurgical products, total....	37	35	12,689	71,883	9,304	18,961	48,988	178,880	399,122	16,969	11,361	114,718	9,628
	Middle Atlantic...	7	5	2,986	18,224	1,773	3,800	10,131	33,569	70,844	6,043	3,186	37,859	4,427
	North Central....	13	13	4,084	23,182	2,888	5,752	15,279	60,438	137,712	6,881	3,636	28,818	1,502
	Ohio.....	8	8	3,578	20,109	2,571	5,107	13,633	53,470	117,371	6,614	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
	South.....	10	10	4,474	23,542	3,703	7,465	18,172	58,898	148,293	3,191	3,729	44,017	3,699
	West.....	7	7	1,145	6,935	940	1,944	5,406	25,975	42,273	854	810	4,022	
	Washington.....	3	3	401	2,756	322	711	2,065	5,313	11,504	( <sup>5</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	
3315	Steel wire drawing, total.....	170	103	19,250	110,184	15,129	29,147	78,432	196,200	452,062	11,980	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	New England.....	36	28	5,681	31,458	4,678	8,726	22,914	51,769	99,056	3,396	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Massachusetts...	25	20	3,260	18,646	2,659	5,190	14,197	28,073	58,600	1,056	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Middle Atlantic...	49	19	3,944	22,740	3,084	5,871	16,046	35,230	83,454	2,517	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	New York.....	19	6	431	1,981	366	642	1,486	3,328	7,943	( <sup>5</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	East North Central	58	39	7,332	43,307	5,660	11,108	30,557	81,045	208,218	4,302	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Ohio.....	10	9	939	4,595	771	1,487	3,610	10,725	29,531	( <sup>5</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Illinois.....	36	21	4,362	26,844	3,473	6,807	19,649	45,951	126,500	2,090	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Wisconsin.....	5	3	503	2,715	326	653	1,625	5,430	9,967	( <sup>5</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	West North Central	5	4	1,288	7,271	864	1,744	4,669	16,273	30,109	1,284	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	South and West....	22	13	1,005	5,408	843	1,698	4,246	11,883	31,225	( <sup>5</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
3316	Cold finishing of steel shapes, total.....	78	63	10,943	67,084	8,528	16,039	47,225	141,516	477,824	12,419	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	New England.....	15	13	1,689	9,489	1,356	2,516	6,801	20,973	62,009	(D)	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Connecticut.....	6	6	1,082	6,144	846	1,593	4,369	14,745	44,651	1,632	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Middle Atlantic...	23	19	3,682	22,670	2,912	5,487	16,287	44,351	125,330	(D)	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	New York.....	5	3	1,127	7,475	983	1,863	6,013	13,554	30,335	796	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	New Jersey.....	5	4	494	3,014	362	697	2,089	6,257	13,958	819	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Pennsylvania....	13	12	2,061	12,181	1,567	2,927	8,185	24,540	81,037	1,073	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	East North Central	27	25	4,880	31,234	3,731	7,099	21,591	69,762	267,691	6,834	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Ohio.....	9	8	2,103	13,536	1,614	2,959	9,532	22,155	66,934	1,294	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	Indiana.....	5	5	956	5,767	724	1,377	4,093	13,648	54,708	1,186	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
	South and West....	13	6	692	3,691	529	937	2,546	6,430	22,794	972	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3317	Steel pipe and tubes, total.....	136	101	23,911	138,144	19,402	37,988	103,848	284,096	780,684	15,133	22,085	204,325	15,711
	New England.....	3	3	83	494	66	165	387	647	1,240	(D)	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
	Middle Atlantic.....	43	33	9,355	53,861	7,840	15,057	42,722	102,593	267,696	(D)	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
	Pennsylvania.....	26	23	7,992	45,894	6,869	13,189	37,591	86,355	227,390	5,087	7,437	63,499	4,697
	North Central.....	48	38	9,039	54,105	7,191	14,302	39,239	109,922	296,580	5,069	9,835	91,810	( <sup>6</sup> )
	Ohio.....	14	13	4,019	23,513	3,157	5,866	16,728	45,790	132,677	2,211	3,545	32,728	2,356
	Illinois.....	10	6	751	4,764	614	1,286	3,334	7,358	22,387	( <sup>2</sup> )	531	6,561	836
	Michigan.....	12	11	2,065	13,080	1,682	3,551	9,766	26,477	50,815	733	2,503	20,616	2,365
	South.....	14	11	2,670	13,379	2,198	4,302	10,117	38,992	119,221	2,880	1,770	17,387	( <sup>6</sup> )
	Texas.....	6	5	1,843	9,949	1,512	2,942	7,586	30,892	88,771	2,452	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
	West.....	28	16	2,764	16,305	2,107	4,162	11,383	31,942	104,947	1,371	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.

<sup>2</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958, and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3312, Blast Furnaces and Steel Mills: New England—Maine, 1 (1-19); Massachusetts, 4 (2,518); Rhode Island, 1 (500-999); Connecticut, 2 (500-999); North Central—Wisconsin, 2 (250-499); Minnesota, 3 (2,500-4,999); Missouri, 3 (2,500-4,999); South—Delaware, 1 (1,000-2,499); Maryland, 4 (29,213); Virginia, 7 (250-499); West Virginia, 10 (13,865); Georgia, 2 (1,000-2,499); Florida, 1 (20-99); Kentucky, 6 (5,000 and over); Tennessee, 4 (250-499); Alabama, 19 (5,000 and over); Mississippi, 1 (100-249); Oklahoma, 1 (250-499); Texas, 3 (5,000 and over); West—Colorado, 1 (5,000 and over); Utah, 3 (5,000 and over); Washington, 3 (1,000-2,499); Oregon, 1 (250-499).

SIC 3313, Electrometallurgical Products: Middle Atlantic—New York, 4 (2,839); Pennsylvania, 3 (100-249); North Central—Illinois, 2 (100-249); Michigan, 2 (20-99); Iowa, 1 (250-499); South—West Virginia, 2 (1,000-2,499); South Carolina, 1 (250-499); Kentucky, 1 (250-499); Tennessee, 4 (1,000-2,499); Alabama, 1 (250-499); Texas, 1 (100-249); West—Montana, 1 (100-249); Oregon, 3 (500-999).

SIC 3315, Steel Wire Drawing: New England—New Hampshire, 1 (250-499); Rhode Island, 4 (500-999); Connecticut, 6 (1,278); Middle Atlantic—New Jersey, 16 (1,289); Pennsylvania, 14 (2,224); East North Central—Indiana, 6 (500-999); Michigan, 1 (500-999); West North Central—Iowa, 3 (250-499); Missouri, 2 (500-999); South—Maryland, 2 (100-249); West Virginia, 1 (20-99); North Carolina, 1 (20-99); Georgia, 1 (1-19); Florida, 2 (20-99); Tennessee, 1 (1-19); Arkansas, 1 (1-19); West—Colorado, 1 (1-19); California, 12 (500-999).

SIC 3316, Cold Finishing of Steel Shapes: New England—Massachusetts, 8 (250-499); Rhode Island, 1 (250-499); East North Central—Illinois, 4 (500-999); Michigan, 8 (500-999); Wisconsin, 1 (20-99); South—Maryland, 2 (100-249); West Virginia, 1 (250-499); West—Washington, 1 (1-19); California, 9 (100-249).

SIC 3317, Steel Pipe and Tubes: New England—Massachusetts, 2 (20-99); Connecticut, 1 (20-99); Middle Atlantic—New York, 5 (250-499); New Jersey, 12 (500-999); North Central—Indiana, 4 (100-249); Wisconsin, 4 (1,905); Minnesota, 1 (1-19); Iowa, 3 (100-249); South—Georgia, 1 (1-19); Florida, 1 (1-19); Kentucky, 1 (100-249); Tennessee, 2 (100-249); Alabama, 1 (250-499); Louisiana, 2 (100-249); West—Utah, 1 (250-499); Pacific—Washington, 1 (20-99); California, 26 (1,000-2,499).

<sup>3</sup> Detailed figures will not agree with this total due to the exclusion of coke oven data for some States. See footnote 3.<sup>4</sup> Data are limited to blast furnaces and steel works to avoid disclosing figures for individual companies.<sup>5</sup> Value of shipments is omitted for this industry because it contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry.<sup>6</sup> Less than \$500 thousand.<sup>7</sup> This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>8</sup> Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

Table 3.—Detailed Statistics for the United States: 1958

Item	Blast furnaces and steel mills (SIC 3312)				Electro-metal-lurgical products (SIC 3313)	Steel wire drawing (SIC 3315)	Cold finishing of steel shapes (SIC 3316)	Steel pipe and tubes (SIC 3317)
	Total	Fully integrated works <sup>1</sup>	Partially integrated works <sup>1</sup>	Non-integrated works <sup>1</sup>				
Primary product specialization ratio <sup>2</sup> .....	(3)	(3)	(3)	(3)	91	88	95	92
Coverage ratio <sup>4</sup> .....	(3)	(3)	(3)	(3)	76	26	18	40
Number of establishments, total.....	291	37	93	161	37	170	78	136
With 1-19 employees.....	31	...	...	31	2	67	15	35
With 20-99 employees.....	30	...	4	26	8	55	29	43
With 100 employees or more.....	230	37	89	104	27	48	34	58
Proprietors and working partners....Number...	24	...	...	24	1	42	8	16
All employees:								
Number (average for the year).....	511,392	272,859	164,274	74,259	12,689	19,250	10,943	23,911
Payroll.....\$1,000...	3,183,483	1,692,810	1,029,942	460,731	71,883	110,184	67,084	138,144
Production workers:								
Number (average for the year).....	5,642,198	225,585	131,806	59,825	59,382	15,129	8,528	59,883
January.....	441,637	(NA)	(NA)	(NA)	10,347	(NA)	(NA)	22,025
February.....	424,306	(NA)	(NA)	(NA)	10,182	(NA)	(NA)	19,892
March.....	412,843	222,968	129,859	60,016	9,766	15,084	8,646	19,460
April.....	399,344	(NA)	(NA)	(NA)	8,859	(NA)	(NA)	19,369
May.....	397,733	215,115	125,127	57,491	8,344	14,547	8,042	19,475
June.....	413,355	(NA)	(NA)	(NA)	8,146	(NA)	(NA)	19,652
July.....	408,932	(NA)	(NA)	(NA)	8,061	(NA)	(NA)	19,165
August.....	416,624	227,442	130,057	59,125	8,437	15,073	8,353	19,265
September.....	425,243	(NA)	(NA)	(NA)	9,161	(NA)	(NA)	20,215
October.....	436,104	(NA)	(NA)	(NA)	9,986	(NA)	(NA)	20,602
November.....	441,605	236,801	142,152	62,652	10,661	15,789	9,101	19,600
December.....	446,244	(NA)	(NA)	(NA)	10,634	(NA)	(NA)	19,874
Man-hours.....1,000...	765,941	414,645	241,046	110,250	18,961	29,147	16,039	37,988
January-March.....do.....	185,811	100,280	58,332	27,199	5,130	7,079	3,914	9,478
April-June.....do.....	176,655	95,864	55,303	25,488	4,250	7,012	3,641	9,418
July-September.....do.....	187,918	102,843	58,392	26,683	4,307	6,854	3,772	9,314
October-December.....do.....	215,547	115,658	69,019	30,870	5,274	8,128	4,709	9,761
Wages.....\$1,000...	2,415,959	1,312,044	759,276	344,639	48,988	78,432	47,225	103,848
Cost of Materials, etc., total.....do.....	(3)	(3)	(3)	(3)	221,509	260,490	338,495	496,141
Materials, parts, containers, and supplies consumed.....do.....	6,865,454	(3)	(3)	(3)	188,882	245,303	330,543	472,595
Cost of resales.....do.....	66,009	10,645	37,051	18,313	1,604	5,841	466	10,834
Fuels consumed.....do.....	520,557	164,917	256,638	99,002	8,282	4,088	3,647	5,538
Electricity purchased.....do.....	152,870	58,254	63,155	31,461	22,255	4,457	3,476	4,859
Contract work.....do.....	36,691	7,751	23,761	5,179	536	802	369	2,302
Value of shipments (including resales), total.....do.....	(3)	(3)	(3)	(3)	399,122	452,062	477,824	780,684
Value of resales.....do.....	67,369	10,943	36,432	19,994	1,857	6,310	481	11,661
Value added by manufacture, adjusted...do.....	6,062,227	3,410,478	1,768,571	883,178	178,880	196,200	141,516	284,096
Manufacturers' inventories:								
Beginning of year, total.....do.....	2,915,623	1,422,407	902,964	590,252	134,090	86,196	89,128	151,263
Finished products.....do.....	621,659	269,549	162,050	190,060	51,680	35,313	18,382	25,982
Work-in-process.....do.....	648,717	247,796	243,170	157,751	25,834	19,963	17,706	40,575
Materials, supplies, fuel, etc...do.....	1,645,247	905,062	497,744	242,441	56,576	30,920	53,040	84,706
End of year, total.....do.....	2,997,192	1,449,818	960,368	587,006	130,822	90,033	91,270	136,935
Finished products.....do.....	667,348	299,978	182,372	184,998	53,400	42,301	18,344	29,575
Work-in-process.....do.....	714,685	277,067	264,040	173,578	25,381	17,603	19,931	36,535
Materials, supplies, fuel, etc...do.....	1,615,159	872,773	513,956	228,430	52,041	30,129	52,995	70,825
Expenditures for plant and equipment, total.....do.....	959,730	449,331	387,879	122,520	17,125	12,599	12,495	16,246
New, total.....do.....	950,056	446,185	386,134	117,737	16,969	11,980	12,419	15,133
New structures and additions to plant.....do.....	380,405	200,062	136,787	43,556	4,138	1,803	2,876	5,470
New machinery and equipment.....do.....	569,651	246,123	249,347	74,181	12,831	10,177	9,543	9,663
Used plant and equipment.....do.....	9,674	3,146	1,745	4,783	156	622	76	1,113

Note: Detailed figures may not add to totals because of independent rounding.

NA Not available. <sup>1</sup>Revised.

<sup>2</sup>Definitions of fully integrated, partially integrated, and non-integrated steel works are as follows: fully integrated works are establishments having coke ovens, blast furnaces, steel furnaces, and rolling and finishing mills; partially integrated works are establishments having steel furnaces, and either rolling and finishing mills or a forging department; non-integrated works represent all other types of establishments including beehive coke ovens, byproduct coke ovens operated independently of blast furnaces and steel departments, merchant blast furnaces and establishments with hot rolling and finishing operations. Some partially integrated works also have blast furnaces. (See table 9A.) In a few cases, operations which are, in fact, fully integrated are classified as partially integrated or non-integrated because separate establishment reports were collected either because the operations are conducted in different cities or towns, or the company treats the operations separately for their own administrative reasons.

<sup>3</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>4</sup>Omitted because of substantial duplication in value of shipments and cost of materials. (See introductory text). Specialization and coverage ratios are not meaningful because of such duplication.

<sup>5</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>6</sup>Differs from the production worker figure appearing in tables 1 and 2 because the figures in those tables are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. In this table they represent the average of 12 monthly figures.

<sup>7</sup>Does not agree with average employment figures for the subindustries because the subindustry figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November only.



**BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS**  
**Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,**  
**for the United States: 1958**

33A-11

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3312	Blast furnaces and steel mills: <sup>1</sup>											
	Number of establishments.....	291	15	8	8	18	12	38	46	37	47	62
	All employees:											
	Number.....	511,392	31	49	114	623	941	6,027	17,110	26,180	77,698	382,619
	Payroll.....\$1,000..	3,138,483	117	267	395	2,961	4,573	31,693	100,438	157,146	483,527	2,402,366
	Value added, adjusted..do...	6,062,227	108	576	632	4,508	11,402	86,896	204,657	273,592	845,598	4,634,258
	Value of shipments.....do...	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
	Capital expend., new...do...	950,056	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	793	5,441	20,309	29,396	102,504	790,883
	Fully integrated works <sup>1,3</sup>											
	Number of establishments...	37	...	...	...	...	...	...	...	...	2	35
	All employees:											
	Number.....	272,859	...	...	...	...	...	...	...	...	272,859	(D)
	Payroll.....\$1,000..	1,692,810	...	...	...	...	...	...	...	...	1,692,810	(D)
	Value added, adjusted..do...	3,410,478	...	...	...	...	...	...	...	...	3,410,478	(D)
	Value of shipments.....do...	( <sup>1</sup> )	...	...	...	...	...	...	...	...	( <sup>1</sup> )	( <sup>1</sup> )
	Capital expend., new...do...	446,185	...	...	...	...	...	...	...	...	446,185	(D)
	Partially integrated works <sup>1,3</sup>											
	Number of establishments...	93	...	...	...	2	2	5	15	17	30	22
	All employees:											
	Number.....	164,274	...	...	...	220	(D)	722	5,595	11,961	49,658	96,118
	Payroll.....\$1,000..	1,029,942	...	...	...	1,230	(D)	3,819	34,283	70,309	305,849	614,452
	Value added, adjusted..do...	1,768,571	...	...	...	2,135	(D)	8,716	63,869	103,832	506,577	1,083,442
	Value of shipments.....do...	( <sup>1</sup> )	...	...	...	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
	Capital expend., new...do...	386,134	...	...	...	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8,115	8,039	68,324	301,296
	Nonintegrated works <sup>1,3</sup>											
	Number of establishments...	161	15	8	8	16	10	33	31	20	15	5
	All employees:											
	Number.....	74,259	31	49	114	1,344	(D)	5,305	11,515	14,219	41,682	(D)
	Payroll.....\$1,000..	460,731	117	267	395	3,304	(D)	27,874	66,155	86,837	272,782	(D)
	Value added, adjusted..do...	883,178	108	576	632	13,775	(D)	78,180	140,788	169,760	479,359	(D)
	Value of shipments.....do...	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
	Capital expend., new...do...	117,737	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1,159	(D)	5,187	12,194	21,357	77,582	(D)
3313	Electrometallurgical products:											
	Number of establishments.....	37	1	...	1	5	3	13	9	1	4	...
	All employees:											
	Number.....	12,689	428	...	(D)	(D)	(D)	1,994	10,267	(D)	(D)	...
	Payroll.....\$1,000..	71,883	2,532	...	(D)	(D)	(D)	11,092	58,259	(D)	(D)	...
	Value added, adjusted..do...	178,880	5,790	...	(D)	(D)	(D)	27,235	145,855	(D)	(D)	...
	Capital expend., new...do...	16,969	18,818	...	(D)	(D)	(D)	75,411	304,893	(D)	(D)	...
3315	Steel wire drawing:											
	Number of establishments.....	170	31	23	13	27	28	22	18	6	2	...
	All employees:											
	Number.....	19,250	69	159	179	910	1,999	3,560	5,816	6,558	(D)	...
	Payroll.....\$1,000..	110,184	261	705	814	3,933	10,574	20,011	33,827	40,059	(D)	...
	Value added, adjusted..do...	196,200	604	923	1,776	6,913	22,780	38,419	59,080	65,705	(D)	...
	Capital expend., new...do...	11,980	1,615	2,786	5,368	19,982	55,005	97,738	124,118	145,450	(D)	...
3316	Cold finishing of steel shapes:											
	Number of establishments.....	78	7	2	6	13	16	19	13	2	...	...
	All employees:											
	Number.....	10,943	21	(D)	78	457	1,161	2,991	6,235	(D)	...	...
	Payroll.....\$1,000..	67,084	98	(D)	454	2,613	7,389	17,204	39,326	(D)	...	...
	Value added, adjusted..do...	141,516	196	(D)	944	5,314	15,653	38,583	80,826	(D)	...	...
	Capital expend., new...do...	12,419	425	(D)	3,937	22,832	56,220	123,309	271,101	(D)	...	...
3317	Steel pipe and tubes:											
	Number of establishments.....	136	14	8	13	26	18	27	18	7	5	...
	All employees:											
	Number.....	23,911	35	54	178	864	1,367	4,380	5,944	4,531	6,558	...
	Payroll.....\$1,000..	138,144	143	281	890	4,368	8,185	25,273	35,100	27,259	36,645	...
	Value added, adjusted..do...	284,096	342	578	1,926	7,333	18,030	43,720	90,393	62,254	59,520	...
	Capital expend., new...do...	15,133	1,120	1,792	5,578	17,396	47,541	107,332	255,705	176,848	167,372	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Value of shipments is omitted for this industry because it contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry.

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>See footnote 1, table 3 for definition of fully integrated, partially integrated and nonintegrated works.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3312	Blast furnaces and steel mills.....1958..	( <sup>3</sup> )	12,653,182	647,796	291,174	( <sup>3</sup> )	14,558,530	12,653,182	1,905,348	( <sup>3</sup> )
3313	Electrometallurgical products.....1958..	399,122	354,797	35,129	9,196	91	468,117	354,797	113,320	<sup>4</sup> 76
		1954..	272,751	249,991	<sup>5</sup> 22,760	92	368,342	249,991	118,351	68
3315	Steel wire drawing.....1958..	452,062	386,786	54,326	10,950	88	1,490,977	386,786	1,104,191	<sup>6</sup> 26
3316	Cold-finishing of steel shapes.1958..	477,824	449,574	22,114	6,136	95	2,430,547	449,574	1,980,973	<sup>7</sup> 18
3317	Steel pipe and tubes.....1958..	780,684	691,734	63,267	25,683	92	1,723,643	691,734	1,031,909	<sup>8</sup> 40
		1954..	535,772	465,990	44,799	91	1,551,131	465,990	1,085,141	30

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>The value of shipments for the industry in 1958 totaled \$13,592 million. This value, however, includes duplication in that the products of some establishments are used as materials by others. For 1958 it is estimated that this duplication amounted to about \$2,200 million and accordingly a net value of shipments for the industry would total \$11,392 million. See text for Industry 3312 for fuller explanation. A specialization ratio computed on the basis of net value of shipments would approximate 94 percent. A coverage ratio for this industry cannot be precisely computed. However, such a ratio would exceed 84 percent. No comparable data on specialization or coverage ratios are available for 1954.

<sup>4</sup>Included in this industry are electrometallurgical products which are also primary to Industry 3312, Blast Furnaces and Steel Mills. A coverage ratio computed on the basis of including both industries to which electrometallurgical products are primary would total 96 percent; 76 percent by Industry 3313, and 20 percent by Industry 3312. The remaining 4 percent was shipped by establishments in other industries.

<sup>5</sup>Miscellaneous receipts are included with secondary products for this industry.

<sup>6</sup>Included in this industry is steel wire which is also primary to Industry 3312, Blast Furnaces and Steel Mills, and fabricated ferrous wire products, nec, some of which are also primary to Industry 3481, Fabricated Wire Products, NEC. A coverage ratio computed on the basis of including both industries to which these respective product classes are primary would total 78 percent; approximately 29 percent by Industry 3481, 26 percent by Industry 3315 and 23 percent by Industry 3312. The remaining 22 percent was shipped by establishments in other industries.

<sup>7</sup>Included in this industry are cold rolled sheet, strip and bars which are also primary to Industry 3312, Blast Furnaces and Steel Mills. A coverage ratio computed on the basis of including both industries to which cold rolled sheet, strip and bars are primary would total 99 percent; 81 percent by Industry 3312, and 18 percent by Industry 3316. The remaining 1 percent was shipped by establishments in other industries.

<sup>8</sup>Included in this industry are steel pipe and tubes which are also primary to Industry 3312, Blast Furnaces and Steel Mills. A coverage ratio computed on the basis of including both industries to which steel pipe and tubes are primary would total 98 percent; 58 percent by Industry 3312, and 40 percent by Industry 3317. The remaining 2 percent was shipped by establishments in other industries.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. Each column shows for the industry named in the column heading the total value of shipments divided among: (a) steel rolling and finishing products, (b) other products, and (c) miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry named at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Product	Blast furnaces and steel mills (SIC 3312)				Electro-metal-lurgical products (SIC 3313)	Steel wire drawing (SIC 3315)	Cold-finishing of steel shapes (SIC 3316)	Steel pipe and tubes (SIC 3317)	Other industries <sup>2</sup>	All industries
		Total	Subindustry								
			Fully integrated works <sup>1</sup>	Partially integrated works <sup>1</sup>	Nonintegrated works <sup>1</sup>						
	Total shipments and receipts of the industry.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	399,122	452,062	477,824	780,684	xxx	xxx
331--	Steel rolling and finishing products..	12,933,029	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	354,797	389,482	467,512	701,742	xxx	xxx
33121 pt	Coke oven and blast furnace products, except ferroalloys.....	1,056,220	377,931	82,022	690,307	{ ...	{ ...	{ ...	{ ...	{ ...	1,056,220
33121 pt	Electrometallurgical products: Blast furnace ferroalloys and other additives.....	94,040									
33130	Electric furnace ferroalloys and other additives.....	...									
33122	Steel ingot and semifinished shapes.	1,843,977	910,975	803,535	129,467	...	(D)	...	(D)	2,947	1,846,924
33123	Hot rolled sheet and strip, including tin-mill products.....	3,162,502	1,589,982	664,254	908,266	...	(D)	(D)	(D)	6,792	3,169,294
33124	Hot rolled bars and bar shapes, plates, structural shapes, and piling.....	2,876,094	1,575,135	1,104,582	196,377	...	(D)	(D)	(D)	3,578	2,879,672
33125	Steel wire: Made in blast furnaces and steel mills (Industry 3312).....	350,175	121,393	168,608	60,174	...	...	...	...	...	564,734
33155	Made in steel wire drawing (Industry 3315) and other industries.....	...	...	...	...	...	198,339	(D)	...	16,220	
33126	Steel pipe and tube: Made in blast furnace and steel mills (Industry 3312).....	993,340	600,863	228,488	163,989	...	...	...	...	...	1,723,643
33176	Made in steel pipe and tube (Industry 3317) and other industries.....	...	...	...	...	...	...	(D)	691,734	538,569	
33127	Cold-rolled steel sheet and strip: Made in blast furnaces and steel mills (Industry 3312).....	1,838,390	1,035,784	386,263	416,343	...	...	...	...	...	2,091,623
33167	Made in cold-finishing of steel shapes (Industry 3316) and other industries.....	...	...	...	...	...	(D)	245,495	(D)	67,738	
33128	Cold-finished steel bars and bar shapes: Made in blast furnaces and steel mills (Industry 3312).....	130,623	37,722	82,170	10,731	...	...	...	...	...	338,924
33168	Made in cold-finishing of steel shapes (Industry 3316) and other industries.....	...	...	...	...	...	(D)	204,079	(D)	74,222	
33129	Press and hammer steel forgings.....	119,487	(D)	(D)	(D)	...	...	...	...	8101,377	8220,864
33120	Other steel mill products, except wire products.....	188,334	114,336	55,689	18,309	...	...	...	(D)	10,181	198,515
33151	Noninsulated ferrous wire rope, cable, and strand.....	18,344	(D)	(D)	5,240	...	75,762	...	...	1069,280	10163,386
33152	Steel nails and spikes.....	99,504	44,474	41,340	13,690	...	52,809	...	...	7,050	159,363
33156	Fencing and fence gates.....	40,114	14,537	19,526	6,051	...	7,931	...	...	1055,264	10103,309
33157	Wire cloth and other woven wire products.....	15,871	(D)	12,059	(D)	...	10,072	...	...	1062,494	1088,437
33159	Other fabricated ferrous wire products.....	106,014	(D)	50,937	(D)	...	37,154	...	...	10262,488	10405,656
33150	Steel wire drawing, nsk.....	...	...	...	...	...	4,719	...	...	1,373	6,092
	Other products.....	367,949	104,355	125,594	138,000	35,129	51,630	4,176	53,259	xxx	xxx
3321+	Miscellaneous gray iron castings....	12,586	(D)	(D)	(D)	...	...	...	...	xxx	xxx
33230	Steel castings.....	26,885	(D)	12,421	(D)	...	...	...	...	xxx	xxx
33211	Copper and copper-base alloy wire, bare and tinned for purposes other than electrical transmission.....	...	...	...	...	...	2,463	...	...	xxx	xxx
33211	Drop, upset, and press steel forgings (closed die).....	28,438	(D)	(D)	(D)	...	...	...	(D)	xxx	xxx
34432	Warm air furnaces (except floor and wall), except parts.....	9,076	(D)	(D)	(D)	...	...	...	(D)	xxx	xxx
34441	Sheet metal roofing and siding and roof drainage equipment.....	6,988	(D)	...	(D)	...	(D)	...	...	xxx	xxx
34433	Miscellaneous metal building materials.....	29,023	(D)	9,290	(D)	...	...	...	...	xxx	xxx
34430	Fabricated metal products, nec.....	67,940	(D)	(D)	(D)	...	...	...	(D)	xxx	xxx
33730	Addressing, duplicating, and office machines, nec.....	...	...	...	...	...	7,235	...	...	xxx	xxx
	All other products <sup>11</sup> .....	12187,013	104,355	103,883	138,000	135,129	141,932	4,176	1553,259	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Product	Blast furnaces and steel mills (SIC 3312)				Electro- metal- lurgical products (SIC 3313)	Steel wire drawing (SIC 3315)	Cold- finishing of steel shapes (SIC 3316)	Steel pipe and tubes (SIC 3317)	Other indus- tries <sup>2</sup>	All indus- tries <sup>2</sup>
		Total	Subindustry								
			Fully integrated works <sup>1</sup>	Partially integrated works <sup>1</sup>	Noninte- grated works <sup>1</sup>						
	Miscellaneous receipts.....	291,174	86,513	101,044	103,617	9,196	10,950	6,136	25,683	xxx	xxx
	Conversion of steel for other companies.....	13,757	(D)	(D)	(D)	...	...	(D)	2,992	xxx	xxx
	Other contract and commission work..	25,644	4,192	13,423	8,029	3,515	2,213	902	3,841	xxx	xxx
	Scrap and salable refuse.....	137,292	38,023	33,018	66,251	3,638	1,788	4,273	6,593	xxx	xxx
	Resales.....	67,369	10,943	36,432	19,994	1,857	6,310	481	11,661	xxx	xxx
	All other <sup>16</sup> .....	47,112	33,355	18,171	9,343	186	639	480	596	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>See footnote 1, table 3 for definition of fully integrated, partially integrated and nonintegrated works.

<sup>2</sup>Includes values for those industries for which separate data could not be published without revealing the operations of individual companies. The symbol "D" appears in the appropriate column for such industries.

<sup>3</sup>The value of shipments of Industry 3312 in 1958 totaled \$13,592 million. This value, however, includes duplication in that the products of some establishments are used as materials by others. For 1958, it is estimated that the duplication amounted to approximately \$2,200 million and, accordingly, a net value of shipments for the industry would total \$11,392 million. See text for Industry 3312 for fuller explanation.

It is not possible to measure with any degree of accuracy the extent of this duplication for the subindustries of the blast furnaces and steel mills industry because such purchases cross subindustry lines.

<sup>4</sup>Includes over \$2 million produced in Industry 2819, Inorganic Chemicals, NEC.

<sup>5</sup>Includes over \$2 million produced in each of the following industries: 3316, Cold Finishing of Steel Shapes; 3461, Metal Stampings; 3494, Valves and Pipe Fittings; 3644, Noncurrent Carrying Wiring Devices; and 3717, Motor Vehicles and Parts.

<sup>6</sup>Includes over \$2 million produced in Industry 3493, Steel Springs.

<sup>7</sup>Includes over \$2 million produced in Industry 3315, Steel Wire Drawing.

<sup>8</sup>Includes \$93,362 thousand shipped by Industry 3391, Iron and Steel Forgings.

<sup>9</sup>Includes total for product class 33919, Open die or smith forgings made in steel forgings and other industries which are primary to Industry 3391.

<sup>10</sup>The totals for product classes 33151, 33156, 33157, and 33159 include, respectively, the totals for product classes 34811, 34816, 34817, and 34819 which are primary to Industry 3481, Fabricated Wire Products, NEC. Shipments of these product classes in Industry 3481 totaled as follows:

Product class	Value (\$1,000)
34811	65,645
34816	51,772
34817	(NA)
34819	258,193

<sup>11</sup>Includes values for those product classes for which separate data could not be published without revealing the operations of individual companies. The symbol "D" appears for such items.

<sup>12</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33211, Molds for heavy steel ingots; 33512, Rolled, drawn, and extruded copper and copper-base alloy mill products; 33560, Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum); 34436, Metal tanks and vessels, custom fabricated at the factory; 34521, Bolts, nuts, and other standard industrial fasteners; 34612, Job stampings, except automotive; 34615, Stamped and spun hospital utensils and cooking and kitchen household utensils, except aluminum; 35442, Industrial molds.

<sup>13</sup>Includes the following product class which totals \$2 million or more but is withheld to avoid disclosing individual company figures: 28132, Acetylene; 28199, Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, nec.

<sup>14</sup>Includes the following product class which totals \$2 million or more, but is withheld to avoid disclosing individual company figures: 35790, Addressing, dictating, duplicating, and office machines, nec.

<sup>15</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33560, Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum); 34411, Fabricated structural iron and steel for buildings; 36442, Electrical conduit and conduit fittings.

<sup>16</sup>Includes values for those miscellaneous receipt items for which separate data could not be published without revealing the operations of individual companies. The symbol "D" appears for such items.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Production	Shipments including interplant transfers						Produced and consumed in the same plant in the manufacture of other products
				Total		Shipments to other companies		Transfers to other plants of the same company		
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
				1958						
3312---	Blast furnaces (includes coke ovens), steel works and rolling mills <sup>1</sup> .....	.....	xxx	xxx	14,558,530	xxx	xxx	xxx	xxx	xxx
33121-- 33130--	Coke oven, blast furnace, and electrometallurgical products <sup>1</sup> ....	.....	xxx	xxx	1,524,337	xxx	(D)	xxx	(D)	xxx
3312111	Coke oven products: <sup>2</sup> Coke, except screenings and breeze.....	1,000 short tons	52,127	17,547	321,072	7,395	140,965	10,152	180,107	33,906
3312121	Screenings and breeze.....	....do....	3,589	1,140	8,430	968	7,246	172	1,184	2,315
3312131	Coke oven gas.....	Million cu. ft....	783,039	163,906	36,435	82,100	22,257	81,806	14,178	613,961
3312141	Ammonia (sulfate and liquor)...	.....	xxx	xxx	21,096	xxx	20,640	xxx	456	xxx
3312151	Crude tar.....	1,000 gals.	692,349	399,093	52,165	342,561	45,780	56,532	6,385	282,828
3312161	Tar derivatives.....	.....	xxx	xxx	19,983	xxx	(D)	xxx	(D)	xxx
3312171	Crude light oil.....	1,000 gals.	210,859	30,656	5,360	13,797	2,429	16,859	2,931	178,130
3312181	Light oil derivatives.....	....do....	167,022	159,842	45,819	(D)	(D)	(D)	(D)	15,024
3312183	Other coke-oven products.....	.....	xxx	xxx	12,374	xxx	xxx	xxx	xxx	xxx
3312191	Blast furnace products: Pig iron <sup>3</sup> .....	1,000 short tons	57,050	9,157	514,232	3,911	230,281	5,246	283,951	47,499
3312192	Slag.....	....do....	xxx	19,889	10,509	(D)	(D)	(D)	(D)	xxx
3312193	Sinter from ore, flue dust, and other materials.....	....do....	24,631	xxx	8,745	xxx	7,888	xxx	857	24,055
3312194	Blast furnace gas.....	Million cu. ft....	4,395,362	xxx						
3312195 3313012	Electrometallurgical products..	Short tons (gross alloy wt.)	1,756,999	1,654,400	468,117	(D)	(D)	(D)	(D)	(D)
3312195	Ferroalloys and other additives produced in blast furnaces.....	....do....	605,901	504,800	94,040	(D)	(D)	(D)	(D)	71,884
3313012	Electric furnace ferroalloys and other additives.....	....do....	1,151,098	1,149,600	374,077	1,064,772	347,553	84,828	26,524	(D)
				1954						
3312---	Blast furnaces (includes coke ovens), steel works and rolling mills <sup>1</sup> .....	.....	xxx	xxx	15,142,875	xxx	(NA)	xxx	(NA)	(NA)
33121-- 33130--	Coke oven, blast furnace and electrometallurgical products <sup>1</sup> ....	.....	xxx	xxx	4,241,309	xxx	(NA)	xxx	(NA)	(NA)
3312111	Coke oven products: <sup>2</sup> Coke, except screenings and breeze.....	1,000 short tons	58,516	57,913	920,995	(NA)	(NA)	(NA)	(NA)	(NA)
3312121	Screenings and breeze.....	....do....	3,884	2,789	14,458	(NA)	(NA)	(NA)	(NA)	(NA)
3312131	Coke oven gas.....	Million cu. ft....	853,351	533,290	118,210	(NA)	(NA)	(NA)	(NA)	(NA)
3312141	Ammonia (sulfate and liquor)...	.....	xxx	xxx	36,310	xxx	(NA)	xxx	(NA)	(NA)
3312151	Crude tar.....	1,000 gals.	703,305	610,284	59,584	(NA)	(NA)	(NA)	(NA)	(NA)
3312161	Tar derivatives.....	.....	xxx	xxx	17,660	xxx	(NA)	xxx	(NA)	(NA)
3312171	Crude light oil.....	1,000 gals.	244,980	27,249	6,060	(NA)	(NA)	(NA)	(NA)	(NA)
3312181	Light oil derivatives.....	....do....	195,666	193,030	68,907	(NA)	(NA)	(NA)	(NA)	(NA)
3312183	Other coke-oven products.....	.....	xxx	xxx	5,381	xxx	(NA)	xxx	(NA)	(NA)
3312191	Blast furnace products: Pig iron <sup>3</sup> .....	1,000 short tons	(NA)	57,970	2,490,038	5,025	249,908	52,945	2,240,130	(NA)
3312192	Slag.....	....do....	(NA)	23,757	9,375	(NA)	(NA)	(NA)	(NA)	(NA)
3312193	Sinter from ore, flue dust and other materials.....	....do....	(NA)	3,570	36,400	1,512	16,093	2,058	20,307	(NA)
3312194	Blast furnace gas.....	Million cu. ft....	5,551,000	2,969,000	89,589	(NA)	(NA)	(NA)	(NA)	2,262,000
3312195 3313012	Electrometallurgical products..	Short tons (gross alloy wt.)	(NA)	1,723,544	368,342	1,354,602	289,412	368,942	78,930	(NA)
3312195	Ferroalloys and other additives produced in blast furnaces.....	....do....	(NA)	681,595	106,168	(NA)	(NA)	(NA)	(NA)	(NA)
3313012	Electric furnace ferroalloys and other additives.....	....do....	(NA)	1,041,949	262,174	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3312---	Blast furnaces (includes coke ovens), steel works and rolling mills <sup>1</sup> --					
33122--	Continued					
	Steel ingot and semi-finished shapes <sup>5</sup> .....		xxx	1,846,924	xxx	1,668,534
	Steel ingot:					
3312201	As reported in Census of Manufactures.....		xxx	77,771	xxx	51,938
	As reported on Annual Form MA33B.....		xxx	75,015	xxx	xxx
	Semi-finished steel shapes and forms:					
3312221	As reported in Census of Manufactures.....		xxx	1,769,153	xxx	1,616,596
	As reported on Annual Form MA33B.....		xxx	1,758,898	xxx	xxx
33123--	Hot rolled sheet and strip, including tin mill products <sup>5</sup> .....		xxx	3,169,294	xxx	2,568,616
	Hot rolled sheet and strip:					
3312301	As reported in Census of Manufactures.....		xxx	2,079,723	xxx	1,695,423
	As reported on Annual Form MA33B.....		xxx	2,029,808	xxx	xxx
	Tin plate, black plate and terne plate:					
3312321	As reported in Census of Manufactures.....		xxx	1,089,571	xxx	873,193
	As reported on Annual Form MA33B.....		xxx	1,096,107	xxx	xxx
33124--	Hot rolled bars and bar shapes, plates, structural shapes, and piling <sup>5</sup> .....		xxx	2,879,672	xxx	2,298,809
	Steel plates:					
3312401	As reported in Census of Manufactures.....		xxx	903,661	xxx	663,677
	As reported on Annual Form MA33B.....		xxx	891,445	xxx	xxx
	Structural shapes and piling:					
3312431	As reported in Census of Manufactures.....		xxx	570,555	xxx	506,942
	As reported on Annual Form MA33B.....		xxx	564,082	xxx	xxx
	Hot rolled bars and bar shapes:					
3312441	As reported in Census of Manufactures.....		xxx	1,405,456	xxx	1,128,190
	As reported on Annual Form MA33B.....		xxx	1,401,153	xxx	xxx
	Steel wire: <sup>5</sup>					
	As reported on Annual Form MA33B.....		xxx	556,712	xxx	xxx
33125--	As reported in Census of Manufactures.....		xxx	564,734	xxx	464,992
3312501			xxx	350,175	xxx	288,742
3315501			xxx	214,559	xxx	176,250
	Steel pipe and tube: <sup>5</sup>					
	As reported on Annual Form MA33B.....		xxx	1,670,077	xxx	xxx
33126--	As reported in Census of Manufactures.....		xxx	1,723,643	xxx	1,551,131
33176--			xxx	993,340	xxx	1,041,670
3312601			xxx	730,303	xxx	509,461
	Made in steel pipe and tubes (Industry 3317) and other industries.					
	Cold-rolled steel sheet and strip: <sup>5</sup>					
	As reported on Annual Form MA33B.....		xxx	2,073,358	xxx	xxx
33127--	As reported in Census of Manufactures.....		xxx	2,091,623	xxx	1,642,491
33167--			xxx	1,838,390	xxx	1,498,449
3312701			xxx	253,233	xxx	144,042
3316701	Made in cold finishing of steel shapes (Industry 3316) and other industries.....					
	Cold-finished steel bars, and bar shapes: <sup>5</sup>					
	As reported on Annual Form MA33B.....		xxx	331,530	xxx	xxx
33128	As reported in Census of Manufactures.....		xxx	338,924	xxx	277,078
33168			xxx	130,623	xxx	105,206
3312801			xxx	208,301	xxx	171,872
3312801	Made in cold finishing of steel shapes (Industry 3316) and other industries.....					
33129--	Open die or smith forgings (open frame hammer or press) <sup>6</sup> .....	Short tons...	(NA)	220,864	324,183	188,323
33919--						
33129--			129,289	119,487	(NA)	101,999
33919--	Made in steel forgings (Industry 3391) and other industries.....	do.....	(NA)	101,377	(NA)	86,324
3312911	Carbon steel.....	do.....	126,836	59,174	165,964	70,559
3391911						
3312911			51,239	26,712	(NA)	(NA)
3391911	Made in steel forgings and other industries.....	do.....	75,597	32,462	(NA)	(NA)
3312931	Alloy steel (excluding stainless).....	do.....	137,373	138,472	131,733	103,714
3391931						
3312931			75,657	88,921	(NA)	(NA)
3391931	Made in steel forgings and other industries.....	do.....	61,716	49,551	(NA)	(NA)

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3312---	Steel furnaces (includes coke ovens), steel works and rolling mills <sup>1</sup> --					
	Continued					
33129--	Open die or smith forgings (open frame hammer or press) <sup>2</sup> --					
33129--						
3312941	Stainless steel.....	Short tons...	7,749	18,310	6,486	14,010
3312951						
3312941	Made in blast furnaces and steel mills.....	do.....	1,393	3,854	(NA)	(NA)
3312951	Made in steel forgings and other industries.....	do.....	6,356	14,456	(NA)	(NA)
3312900	Open die or smith forgings, not specified by grade.....	do.....	(NA)	4,908	...	...
3312900						
3312041	Other steel mill products, except wire products: <sup>5</sup>					
	As reported in Census of Manufactures.....		xxx	198,515	xxx	241,592
	As reported on Annual Form MA33B.....		xxx	194,224	xxx	xxx
3313012	Electrometallurgical products.....	Short tons...	71,654,400	7468,117	71,723,544	7368,342
3312195						
3315---	Steel wire drawing and steel nails and spikes.....		xxx	1,490,977	xxx	1,242,978
33151--	Non-insulated ferrous wire, rope, cable, and strand.....		xxx	163,386	xxx	142,875
34811--						
33151--	Made in Industries 3312 and 3315.....		xxx	94,106	xxx	(NA)
34811--	Made in fabricated wire products, nec (Industry 3481) and other industries.....		xxx	69,280	xxx	(NA)
3315111	Iron and steel wire rope and cable.....	Short tons...	187,395	125,025	169,076	106,877
3481111						
3315111	Made in Industries 3312 and 3315.....	do.....	96,686	62,561	(NA)	(NA)
3481111	Made in Industry 3481 and other industries.....	do.....	90,709	62,464	(NA)	(NA)
3315121	Composite strand, rope, and cable including wire strands of different metals (except ACSR).....	do.....	78,321	76,155	(NA)	5,516
3481121						
3315131	Iron and steel wire strand (including guard rail cable):					
3481131						
	Quantity reported.....	Short tons...	764,297	725,583	79,517	29,288
	Quantity not reported.....		xxx	4,769	...	...
3315100	Non-insulated ferrous wire rope, cable, and strand, nsk.....		xxx	1,854	xxx	1,254
3481100						
33152--	Steel nails and spikes.....		xxx	159,363	xxx	147,677
3315211		Short tons...	293,948	62,734	407,861	66,359
3315213	Bright.....	do.....	73,114	20,671	82,017	19,376
3315213	Galvanized.....	do.....	65,431	14,359	73,559	12,670
3315217	Cement-coated.....	do.....	28,423	9,643	30,064	9,646
3315219	Other nails, spikes, etc.....	do.....				
3315223	Steel wire staples:					
	Quantity reported.....	do.....	76,241	17,419	(NA)	15,844
	Quantity not reported.....		xxx	3,433	xxx	
3315227	Steel wire tacks.....	Short tons...	1,563	857	(NA)	
3315231	Steel cut nails, spikes and brads (including horseshoe nails and track spikes).....	do.....	87,889	17,613	78,450	13,495
3315235	Steel cut tacks:					
	Quantity reported.....	do.....	10,365	6,429	13,617	7,465
	Quantity not reported.....		xxx	1,560	xxx	568
3315200	Steel nails and spikes, nsk.....		xxx	4,645	xxx	2,254
33155--	Steel wire.....		xxx	7564,734	xxx	7464,992
33125--						
33156--	Fencing and fence gates.....		xxx	103,309	xxx	92,909
34816--						
33156--	Made in Industries 3312 and 3315.....		xxx	48,045	xxx	44,876
34816--	Made in fabricated wire products, nec (Industry 3481) and other industries.....		xxx	55,264	xxx	48,033
3315611	Chain link fencing (including posts, gates, and fittings).....	Short tons...	(NA)	54,253	135,927	45,648
3481611						
3315611	Made in Industries 3312 and 3315.....	do.....	51,456	11,654	(NA)	(NA)
3481611	Made in Industry 3481 and other industries—	do.....	87,110	31,682	(NA)	(NA)
	Quantity reported.....		xxx	10,917	xxx	(NA)
	Quantity not reported.....					
3315621	Wire fence, woven and welded.....	Short tons...	xxx	34,363	208,326	33,177
3481621						
3315621	Made in Industries 3312 and 3315.....	do.....	127,770	30,194	(NA)	(NA)
3481621	Made in Industry 3481 and other industries—	do.....	9,352	3,064	(NA)	(NA)
	Quantity reported.....		xxx	1,105	xxx	(NA)
	Quantity not reported.....					

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3315---	Steel wire drawing and steel nails and spikes—Continued					
33156-- 34816--	} Fencing and fence gates—Continued					
3315631 3481631 3315631	} Fence gates, wire, excluding chain link.....	Short tons...	(NA)	2,024	(NA)	3,313
	Made in Industries 3312 and 3315.....	do.....	2,388	1,063	xxx	(NA)
3481631	Made in Industry 3481 and other industries—					
	Quantity reported.....	do.....	4,709	817	(NA)	(NA)
	Quantity not reported.....		xxx	144	xxx	(NA)
3315671 3481671	} Ornamental lawn fence.....	Short tons...	19,754	5,695	37,811	8,051
3315671	Made in Industries 3312 and 3315.....	do.....	17,995	5,134	(NA)	(NA)
3481671	Made in Industry 3481 and other industries.....	do.....	1,759	561	(NA)	(NA)
3481600	Fencing and fence gates, nsk.....		xxx	6,974	xxx	2,720
33157-- 34817--	} Wire cloth and other woven wire products.....		xxx	88,437	xxx	80,151
33157--	Made in Industries 3312 and 3315.....		xxx	25,943	xxx	(NA)
34817--	Made in fabricated wire products, nec (Industry 3481) and other industries.....		xxx	62,494	xxx	(NA)
3315721 3481711	} Insect wire screening, steel.....	Million sq. ft.....	217,660	9,791	295,872	13,162
3315721	Made in Industries 3312 and 3315.....	do.....	65,354	3,135	(NA)	(NA)
3481711	Made in Industry 3481 and other industries.....	do.....	152,306	6,656	(NA)	(NA)
3315731 3481731	} Hardware cloth.....	Short tons...	10,162	7,218	10,892	6,071
3315761 3481761	} Industrial wire cloth, steel.....	Million sq. ft.....	48,508	24,675	58,993	24,536
3315761	Made in Industries 3312 and 3315.....	do.....	17,041	3,200	(NA)	(NA)
3481761	Made in Industry 3481 and other industries.....	do.....	31,467	21,475	(NA)	(NA)
3315771 3481771	} Woven wire netting (poultry, fur farm, etc.).....	Short tons...	52,189	16,460	65,498	16,544
3315771	Made in Industries 3312 and 3315.....	do.....	47,326	14,632	(NA)	(NA)
3481771	Made in Industry 3481 and other industry.....	do.....	4,863	1,828	(NA)	(NA)
3315798 3481798 3481700	} Other wire cloth and woven wire products.....		xxx	16,679	xxx	14,562
	Wire cloth and woven wire products, nsk.....		xxx	13,614	xxx	5,276
33159-- 34819--	} Other fabricated ferrous wire products (except springs).....		xxx	405,656	xxx	313,382
33159--	Made in Industries 3312 and 3315.....		xxx	143,168	xxx	111,552
34819--	Made in Industry 3481 and other industries.....		xxx	262,488	xxx	201,830
3315941 3481941	} Wire chain, tire.....	Short tons...	28,844	20,141	19,738	9,912
3315941	Made in Industries 3312 and 3315.....	do.....	9,626	7,018	(NA)	(NA)
3481941	Made in Industry 3481 and other industries.....	do.....	19,218	13,123	(NA)	(NA)
3315949 3481949	} Wire chain, other.....	do.....	47,944	34,553	43,960	25,112
3315949	Made in Industries 3312 and 3315.....	do.....	14,557	11,649	(NA)	(NA)
3481949	Made in Industry 3481 and other industries.....	do.....	33,387	22,904	(NA)	(NA)
3315951 3481951	} Barbed and twisted wire.....	do.....	57,388	12,131	142,188	23,041
3315955 3481955	} Wire bale ties.....	do.....	71,260	15,682	93,551	16,575
3315955	Made in Industries 3312 and 3315.....	do.....	56,717	12,181	(NA)	(NA)
3481955	Made in Industry 3481 and other industries.....	do.....	14,543	3,501	(NA)	(NA)

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3315---	Steel wire drawing and steel nails and spikes—Continued					
33159-- 34819--	} Other fabricated ferrous wire products (except springs)—Continued					
3315961 3481961	Welded steel wire fabric: Concrete reinforcing mesh.....	Short tons...	516,694	97,539	407,308	60,491
3315961 3481961	Made in Industries 3312 and 3315.....	do.....	435,148	80,106	(NA)	(NA)
	Made in Industry 3481 and other industries.....	do.....	81,546	17,433	(NA)	(NA)
3315965 3481965	} Other welded steel wire fabric.....	do.....	74,392	19,454	81,701	20,179
3315965 3481965	Made in Industries 3312 and 3315.....	do.....	64,145	16,207	(NA)	(NA)
	Made in Industry 3481 and other industries.....	do.....	10,247	3,247	(NA)	(NA)
3315971 3481971	} Wire garment hangers.....	1,000 lbs....	146,672	19,517	131,816	17,042
3315998 3481998	} Other wire products, includes cages, guards, florists' designs, paper clips, etc.....		xxx	158,475	xxx	141,030
3315998 3481998	Made in Industries 3312 and 3315.....		xxx	4,082	xxx	(NA)
	Made in Industry 3481 and other industries.....		xxx	154,393	xxx	(NA)
3315900 3481900	} Other fabricated ferrous wire products (except springs), nsk.....		xxx	28,164	xxx	xxx
3315000	Steel wire drawing, nsk.....		xxx	6,092	xxx	994
3316---	Cold-rolled sheet, strip, and bars, total.....		xxx	2,430,547	xxx	(NA)
3316701 3312701	Cold-rolled steel sheet and strip: As reported on Annual Form MA33B.....		xxx	2,073,358	xxx	xxx
	As reported in Census of Manufactures.....		xxx	72,091,623	xxx	71,642,491
3316801 3312801	Cold-finished steel bars and bar shapes: As reported on Annual Form MA33B.....		xxx	331,530	xxx	xxx
	As reported in Census of Manufactures.....		xxx	7338,924	xxx	7277,078
3317601 3312601	Steel pipe and tubes: As reported on Annual Form MA33B.....		xxx	1,670,077	xxx	xxx
	As reported in Census of Manufactures.....		xxx	71,723,643	xxx	71,551,131

D Withheld to avoid disclosing figures for individual companies.

NA Not available. Revised.

<sup>1</sup>Data for 1954 are not comparable due to different methods used to collect data for integrated coke ovens, blast furnaces and steel works. In the 1958 Census a single report was received covering these activities wherever such operations were performed at a single physical location. In the 1954 Census separate reports were received for: (a) byproduct coke ovens (Industry 2932); (b) blast furnaces (Industry 3311); and (c) steel works (Industry 3312).

<sup>2</sup>Excludes quantities produced in byproduct coke ovens operated in conjunction with utilities manufacturing and distributing gas.

<sup>3</sup>Includes pig iron with silicon content up to and including 6%.

<sup>4</sup>Excludes an indeterminate amount of slag processed by slag processors under contractual arrangements made with steel companies.

<sup>5</sup>Excludes shipments of steel processed on a conversion basis for nonsteel producing companies. Detailed data by shape and grade are shown in tables 6B and 6C of this report. Net shipment figures are shown in table 6D.

<sup>6</sup>These figures are not strictly comparable with tonnage figures shown in Current Industrial Reports (previously identified as Facts for Industry) Series M33C, "Commercial Steel Forgings," in that the latter includes only forgings "for sale," whereas the 1958 and 1954 Censuses of Manufactures also include interplant transfers of forgings. Accordingly, a direct comparison with the monthly Current Industrial Reports series is not possible. Forgings produced and consumed within the same plant are not included in either the Census or the Current Industrial Reports figures. The annual totals reported in the monthly Current Industrial Reports open die or smith forgings were as follows:

Item	1958 (short tons)	1954 (short tons)
Carbon.....	92,096	165,693
Alloy, including stainless.....	163,480	185,995

<sup>7</sup>For detailed data see products of Industry 3312 above.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—Steel Mill Products: Receipts, Production, and Shipments: 1958

Product	Receipts <sup>1</sup> (short tons)	Production (short tons)	Products consumed in producing plants (short tons)				Shipments <sup>1</sup>			
						Total	To other companies		Transfers to other plants of the same company	
			In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies		Quantity (short tons)	Value f.o.b. plant (\$1,000)		Quantity (short tons)
CARBON STEEL										
Ingot.....	376,691	78,578,866	78,426,002	76,181	12,721	377,869	44,306	4,050	333,563	22,896
Semifinished shapes and forms:										
Blooms, billets, slabs, sheet bars, and tinplate bars	10,317,226	58,194,460	57,552,332	62,664	47,260	10,724,376	2,345,982	242,419	8,378,394	771,383
Tube rounds.....	723,067	2,132,882	2,157,238	...	632	708,997	175,180	22,831	533,811	68,964
Skelp.....	876,778	3,430,286	3,455,027	...	2,832	864,370	665,624	72,200	198,746	25,013
Wire rods.....	859,423	4,164,930	3,546,130	27,902	2,906	1,400,738	929,994	137,402	470,744	75,569
Finished shapes and forms:										
Plates:										
Floor plates.....	1,801	147,408	667	199	2,667	147,248	141,133	19,976	6,115	769
Plates, other than floor plates.....	910,666	5,793,828	925,890	60,830	87,812	5,675,555	5,048,708	651,321	626,847	83,122
Sheets and strip:										
Sheets:										
Hot-rolled and enameling.....	2,604,859	8,480,999	2,428,967	39,886	34,561	8,649,935	6,182,386	748,995	2,467,549	269,889
Cold-rolled.....	1,235,837	11,308,623	994,042	87,985	23,568	11,318,684	9,532,192	1,320,256	1,786,492	219,051
Galvanized.....	37,456	2,802,601	18,195	121,931	4,661	2,680,361	2,589,622	443,363	90,739	14,127
Electrical (sheets and strip).....	...	42,478	...	...	...	41,269	41,269	9,777	...	...
Long ternes.....	1,203	125,804	819	...	...	125,702	2125,702	223,821	...	...
Strip:										
Hot-rolled.....	453,794	1,381,738	437,159	165,553	2,691	1,204,990	1,101,902	153,241	103,088	13,879
Cold-rolled.....	213,758	848,856	193,633	29,318	2,554	824,658	768,585	175,894	56,073	11,562
Galvanized.....	1,633	202,083	917	20,655	63	178,436	178,086	36,435	350	65
Tin mill products:										
Black plate (including chemically treated black plate).....	17,872	579,943	8,355	2,227	662	616,564	595,793	86,186	20,771	3,107
Tin plate:										
Hot dipped.....	...	426,068	...	...	104	442,505	442,505	87,372	...	...
Electrolytic.....	...	...	...	...	...	...	...	...	...	...
Terne plates (short ternes).....	259	4,852,868	(D)	...	2,019	5,081,353	5,081,353	919,442	...	...
Structural shapes and piling.....	39,006	4,486,611	6,344	47,733	35,989	4,434,416	4,109,519	515,127	324,897	42,149
Bars:										
Hot rolled bars, except concrete reinforcing:										
Hollow drill steel.....	881,547	5,426,433	822,846	353,820	32,561	5,020,711	4,476,063	639,195	544,648	76,521
All other.....	...	...	...	...	...	...	...	...	...	...
Concrete reinforcing bars:										
Rolled from new billets.....	11,518	2,276,719	4,698	71,273	9,096	2,166,546	1,909,160	249,015	257,386	30,767
Rolled from old materials (rails, axles, etc.)...	13,075	186,036	...	...	...	186,252	186,252	25,929	...	...
Cold finished bars.....	10,385	927,925	84	1,067	402	942,442	907,422	203,790	35,020	7,152
Tool-steel bars.....	432	6,856	394	...	149	7,118	6,160	5,158	958	852
Rails, wheels, and track accessories:										
Rails:										
Standard tee (over 60 lb. per yard).....	21,061	553,649	(D)	5,441	11,026	533,648	521,095	59,452	12,553	1,351
All other (light tee, girder, guard, etc.).....	372	35,910	(D)	1,179	338	38,188	34,323	5,230	3,865	583
Rail joints and tie plates.....	248	153,499	...	3,612	2,092	146,661	146,661	21,266	...	...
Wheels, rolled (including tires and rims).....	(D)	169,599	...	(D)	1,576	165,765	161,149	41,114	4,616	2,026

See footnotes at end of table.

See footnotes at end of table.



Table 6B.—Steel Mill Products: Receipts, Production, Consumption, and Shipments. 1958—Continued

Product	Receipts <sup>1</sup> (short tons)	Production (short tons)	Products consumed in producing plants (short tons)				Total		To other companies		Shipments <sup>1</sup> Transfers to other plants of the same company		
			In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As main- tenance, repair, and operating supplies	Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)		
CARBON STEEL—Continued													
Finished shapes and forms—Continued													
Pipe and tubes:													
Standard pipe.....	36,939	2,238,807	...	29,353	9,727	413,680	2,220,801	413,680	2,150,584	405,647	70,217	13,033	
Line pipe.....	2,452	2,422,514	(D)	2,802	341	438,249	2,392,996	438,249	2,374,692	435,105	18,304	3,144	
Oil country goods.....	1,738	1,117,900	(D)	4,099	215	189,994	896,942	189,994	896,942	189,994	...	...	
Pressure tubing.....	6,525	212,068	3,510	4,099	215	84,443	192,239	74,540	27,345	9,923	...	...	
Mechanical tubing.....	37,513	655,925	12,518	21,564	179	189,041	616,314	185,710	13,724	3,331	...	...	
Miscellaneous.....	19,308	254,234	(D)	1,272	80	62,287	266,405	56,883	24,407	5,404	...	...	
Wire:													
Plain wire.....	77,160	2,114,065	65,696	489,630	8,235	366,709	1,471,453	332,331	142,397	34,378	...	...	
Galvanized wire.....	11,403	351,130	9,888	25,073	1,735	81,255	267,312	69,701	45,148	11,554	...	...	
Other coated wire.....	3,952	88,800	1,737	5,298	...	35,352	80,897	34,574	1,823	772	...	...	
Wire products: <sup>3</sup>													
Nails and staple.....	3,299	426,537	...	3,307	493	99,229	429,020	96,032	13,874	3,197	...	...	
Barbed and twisted wire.....	37	56,382	...	9	31	11,807	57,616	211,807	(2)	(2)	...	...	
Wire fence, woven and welded.....	1,138	129,585	...	1,198	16	137,834	30,609	30,609	495	102	...	...	
Bale ties.....	(D)	53,336	(D)	...	(D)	12,082	54,535	11,974	...	...	...	...	
Wire rope and cable.....	344	75,769	(D)	...	343	53,998	58,925	42,124	18,754	11,872	...	...	
Wire strand <sup>4</sup> .....	(D)	74,272	(D)	...	(D)	28,673	69,916	28,181	1,379	492	...	...	
Woven wire netting.....	(D)	50,365	...	...	(D)	14,555	49,770	14,555	...	...	...	...	
Other rolled and drawn carbon steel products.....	1,754	157,358	...	8,116	802	30,403	148,645	29,157	3,125	1,246	...	...	
ALLOY STEEL (EXCEPT STAINLESS)													
Ingot.....	63,283	5,669,114	5,443,774	200,245	1,239	13,717	71,375	3,105	53,801	10,612	...	...	
Semifinished shapes and forms:													
Blooms, billets, slabs, and sheet bars.....	636,295	3,717,183	3,378,818	70,117	3,404	155,599	325,417	63,585	547,465	92,014	...	...	
Tube rounds and skelp.....	260,007	444,134	465,417	...	443	50,333	32,013	7,765	201,551	42,568	...	...	
Wire rods.....	16,058	65,845	45,090	7,907	...	6,674	227,494	26,674	(2)	(2)	...	...	
Finished shapes and forms:													
Plates.....	2,861	337,325	1,679	(D)	(D)	95,137	329,467	92,234	14,706	2,903	...	...	
Sheet and strip:													
Sheet:													
Hot-rolled.....	19,512	252,686	20,220	1,951	129	53,688	244,511	48,505	21,069	5,183	...	...	
Cold-rolled.....	(D)	60,716	(D)	...	(D)	15,867	56,254	215,867	(2)	(2)	...	...	
Electrical (sheet and strip).....	89,378	427,494	(D)	11,776	...	143,826	477,852	143,826	...	...	...	...	
Strip:													
Hot-rolled.....	6,601	35,197	6,743	...	...	7,928	28,034	6,901	4,144	1,027	...	...	
Cold-rolled.....	(D)	23,677	13,228	(D)	...	11,436	9,597	9,465	3,606	1,971	...	...	
Structural shapes.....	(D)	42,270	...	(D)	204	6,806	39,812	6,468	1,856	338	...	...	

See footnotes at end of table.

Table 6B.—Steel Mill Products: Receipts, Production, Consumption, and Shipments: 1958—Continued

Product	Receipts <sup>1</sup> (short tons)	Production (short tons)	Products consumed in producing plants (short tons)			Total	Shipments <sup>1</sup>								
							To other companies		Transfers to other plants of the same company						
			In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies		Quantity (short tons)	Value f.o.b. plant (\$1,000)		Quantity (short tons)	Value f.o.b. plant (\$1,000)				
ALLOY STEEL (EXCEPT STAINLESS)—Continued															
Finished shapes and forms—Continued															
Bars:															
Hot-rolled.....	115,789	1,252,215	93,901	52,116	1,384	1,192,103	241,192	1,055,874	214,504	136,229					
Cold-finished.....	32	163,571	(D)	...	33	158,763	58,941	146,217	54,064	12,546					
Tool steel bars:															
High speed.....	5,486	8,104	(D)	21	87	12,684	33,707	10,956	30,093	1,728					
Other than high speed.....	705	40,997	570	233	203	41,376	49,609	35,175	42,301	6,201					
Pipe and tubes:															
Oil country goods.....	(D)	240,713	...	(D)	...	473,879	190,690	202,503	57,817	3,614					
Pressure tubing.....	112	39,809	120	(D)	(D)						34,267	23,169	34,267	23,169	7,308
Mechanical tubing.....	46,070	203,038	32,879	...	32						123,455	63,926	123,455	63,926	44,775
Standard, line, and miscellaneous.....	83	6,738	...	(D)	(D)	1,182			11,003						
Wire.....	1,280	42,412	1,030	7,911	...	33,976	25,154	32,625	24,264	890					
Other rolled and drawn alloy steel products.....	...	10,466	...	...	...	10,882	9,439	10,882	9,439	...					
STAINLESS STEEL															
Ingot.....	46,511	900,793	883,761	4,715	210	49,469	34,352	18,558	18,586	30,911					
Semifinished shapes and forms:															
Blooms, billets, slabs, and sheet bars.....	166,473	671,326	632,238	398	721	202,581	130,514	38,175	26,945	152,670					
Tube rounds and wire rods.....	28,507	47,201	43,973	...	23			11,736	12,611						
Finished shapes and forms:															
Plates.....	4,250	37,178	4,127	6,993	143	33,112	41,120	33,112	41,120	...					
Sheet and strip:															
Sheet:															
Hot-rolled.....	103,096	86,686	61,686	(D)	(D)	108,214	65,148	38,127	36,562	70,087					
Cold-rolled.....	8,144	101,687	5,761	75	175	97,722	121,382	297,722	212,1382	(2)					
Strip:															
Hot-rolled.....	78,914	79,470	75,917	...	...	80,358	54,914	280,358	254,914	(2)					
Cold-rolled.....	12,796	190,125	17,515	4,253	19	179,503	188,822	166,810	179,221	12,693					
Bars:															
Hot-rolled.....	7,037	38,531	4,619	494	86	39,741	49,208	32,395	41,555	7,346					
Cold-finished.....	403	47,469	(D)	(D)	(D)	46,946	61,647	45,587	59,669	1,359					
Pipe and tubes:															
Pressure tubing.....	532	17,941	601	34	...	18,333	52,949	218,333	252,949	(2)					
Mechanical tubing.....	4,006	9,803	2,821	...	...	10,858	43,744	210,858	243,744	(2)					
Wire.....	1,266	29,545	737	(D)	(D)	29,384	48,242	28,632	46,542	1,700					
Other rolled and drawn stainless steel products.....	180	10,059	65	(D)	(D)	10,217	12,428	10,217	12,428	...					

Source: Current Industrial Reports (previously identified as Facts for Industry Series) M33B, Steel Mill Products.

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Excludes receipts and shipments of steel processed on a conversion basis for nonsteel producing companies.<sup>2</sup>Transfers to other plants of the same company are included with shipments to other companies.<sup>3</sup>Represents the quantity and value of shipments by steel works and wire drawing plants. Total shipments of these products by all establishments in 1958 are shown in Table 6A.<sup>4</sup>Probably includes some tonnage which in the Census of Manufactures was more specifically reported as, "composite strand, rope and cable (except ACSR)."



Table 6C.-Steel Mill Products. Receipts, Production, Consumption, and Shipments. 1954

Product	Receipts <sup>1</sup> (Short ton)	Production (Short ton)	Products consumed in producing plants			Shipments <sup>1</sup>				
			In the man- ufacture of other steel basic shapes and forms (Short ton)	In the manufacture of fabricated products (Short ton)	As main- tenance, repair, and operating supplies (Short ton)	Total		To other companies		Transfers to other plants of the same company
						Quantity (Short ton)	Value (\$1,000)	Quantity (Short ton)	Value (\$1,000)	
CARBON STEEL										
Ingot.....	228,774	81,245,985	81,583,931	71,186	9,770	264,762	15,610	64,662	4,407	11,203
Unfinished shapes and forms:										
Blooms, billets, slabs, sheet bars, and tin plate bars.....	11,605,189	58,869,142	58,124,253	111,473	59,287	12,491,966	943,090	2,623,672	216,508	9,868,294
Tube rounds.....	931,928	3,132,041	3,153,706	...	969	950,481	87,161	118,635	12,713	831,846
Skelp.....	1,032,331	3,957,855	3,910,671	...	3,589	90,965	1,046,193	670,970	55,843	375,223
Wire rods.....	1,013,623	4,522,172	4,016,310	26,373	3,243	1,460,064	163,326	861,972	96,554	598,092
Finished shapes and forms:										
Plates:										
Floor plates.....	(D)	155,647	...	(D)	1,650	152,708	16,953	215,708	216,953	( <sup>2</sup> )
Plates, other than floor plates.....	695,495	5,884,721	717,203	89,372	89,843	5,683,058	563,689	5,243,923	521,964	41,725
Sheets and strip:										
Sheets:										
Cold-rolled.....	739,159	9,995,568	485,047	3,100	18,243	10,111,983	1,132,337	8,900,699	1,009,645	1,211,284
Hot-rolled and enameling.....	2,404,747	9,054,610	2,351,703	28,253	24,100	8,982,299	856,827	6,257,856	614,881	2,724,443
Electrical <sup>3</sup> .....	(D)	71,600	...	...	(D)	75,866	14,490	214,490	214,490	( <sup>2</sup> )
Long ternes.....	3	150,867	...	...	6	149,997	24,495	140,752	23,398	9,245
Galvanized.....	37,371	2,347,762	14,339	153,244	5,235	2,170,733	317,236	2,071,510	303,570	99,223
Strip:										
Hot-rolled.....	917,713	1,856,800	837,236	204,174	11,685	1,749,074	196,077	1,538,969	172,510	210,105
Cold-rolled.....	134,543	1,439,619	133,153	6,460	2,947	1,470,591	240,469	1,021,476	188,678	449,115
Galvanized.....	10,330	71,336	(D)	17,346	52	68,843	13,615	66,073	13,200	2,770
Electrical.....	...	( <sup>3</sup> )	...	...	...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Tin mill products:										
Black plate (including chemically treated black plate).....	51,185	817,453	45,800	...	1,822	813,654	97,177	709,063	85,422	104,591
Tin plate:										
Hot dipped.....	927	1,316,107	...	...	143	1,251,711	220,471	1,244,339	219,434	7,372
Electrolytic.....	1,384	3,619,560	...	...	604	3,599,788	549,941	3,506,584	535,586	93,204
Terne plates (short ternes).....	...	32,471	...	...	...	34,656	5,604	34,479	5,572	177
Structural shapes and piling.....	54,406	5,277,731	21,753	65,668	46,100	5,206,344	502,546	4,531,387	438,169	674,937
Bars:										
Hot rolled bars, except concrete reinforcing:										
Hollow drill steel.....	9,131	34,615	(D)	796	1,956	31,722	5,739	231,722	25,739	( <sup>2</sup> )
All other.....	859,179	5,369,926	704,758	299,265	44,176	5,039,943	554,254	4,416,173	486,306	623,770
Concrete reinforcing bars:										
Rolled from new billets.....	9,856	1,758,628	...	95,730	4,570	1,654,949	168,223	1,479,363	151,832	175,586
Rolled from old materials (rails, axles, etc.)....	696	233,911	...	(D)	(D)	213,479	24,242	207,205	23,743	6,274
Cold finished bars.....	4,387	1,028,553	105	1,460	541	1,041,262	181,581	1,018,462	178,007	22,800
Tool-steel bars.....	678	9,229	662	...	197	9,289	5,917	8,086	5,088	1,203
Rails, wheels, and track accessories:										
Rails:										
Standard tee (over 60 lb. per yard).....	15,842	1,113,037	(D)	8,085	7,405	1,101,294	99,939	1,067,240	97,405	34,054
Light tee (60 lb. per yard and under).....	(D)	49,564	...	(D)	386	53,427	5,950	47,264	5,248	6,163
All other (girder, guard, etc.).....	(D)	28,426	...	(D)	(D)	25,109	3,546	22,615	3,232	314
Rail joints and tie plate#.....	(D)	345,499	...	(D)	915	345,406	38,144	320,137	35,283	25,269
Wheels, rolled (including tires and rims).....	1,860	221,738	...	...	1,176	218,837	41,111	212,309	39,659	6,528

See footnotes at end of table.

Table 6C.--Steel Mill Products: Receipts, Production, Consumption, and Shipments: 1954--Continued

Product	Receipts <sup>1</sup> (Short ton)	Production (Short ton)	Products consumed in producing plants				Shipments <sup>1</sup>				
			In the man- ufacture of other steel basic shapes and forms (Short ton)	In the manufacture of products (Short ton)	As main- tenance, repair, and operating supplies (Short ton)	Total		To other companies		Transfers to other plants of the same company	
						Quantity (Short ton)	Value (\$1,000)	Quantity (Short ton)	Value (\$1,000)		Quantity (Short ton)
CARBON STEEL—Con.											
Finished shapes and forms—Con.											
Pipe and tubes:											
Standard pipe.....	37,881	2,562,958	(D)	36,198	10,918	2,401,178	354,486	2,317,465	343,256	83,713	11,230
Line pipe.....	6,788	2,407,723	...	...	97	2,433,619	344,595	2,412,213	341,904	21,406	2,691
Oil country goods.....	5,492	2,051,410	...	5,781	1,532	1,987,043	314,312	1,957,305	309,302	29,738	5,010
Pressure tubing.....	2,321	206,147	797	1,470	606	208,318	65,333	208,318	65,333	( <sup>2</sup> )	( <sup>2</sup> )
Mechanical tubing.....	11,540	675,290	8,332	13,167	316	667,698	166,244	658,612	164,196	9,086	2,048
Miscellaneous.....	41,131	224,940	10,781	...	2,426	255,152	51,729	207,912	43,554	47,240	8,175
Wire:											
Plain wire.....	63,240	1,999,135	135,099	136,829	7,544	1,731,980	309,131	1,564,029	277,198	167,951	31,933
Galvanized wire.....	9,346	424,938	39,170	20,090	2,387	358,336	76,315	309,413	66,940	48,923	9,375
Other coated wire.....	3,069	68,537	...	610	...	67,779	22,759	67,492	22,663	287	96
Wire products made in steel mills and wire drawing plants: <sup>4</sup>											
Steel wire nails, spikes and brads:											
Bright.....						392,418	62,659	(NA)	(NA)	(NA)	(NA)
Galvanized.....						79,538	18,137	(NA)	(NA)	(NA)	(NA)
Cement-coated.....						72,324	12,455	(NA)	(NA)	(NA)	(NA)
Other.....						9,776	2,142	(NA)	(NA)	(NA)	(NA)
Steel wire staples and tacks.....						15,876	2,626	(NA)	(NA)	(NA)	(NA)
Steel cut nails, spikes, and brads (including horseshoe nails).....						64,294	10,159	(NA)	(NA)	(NA)	(NA)
Iron and steel wire rope and cable.....						83,636	53,927	(NA)	(NA)	(NA)	(NA)
Composite strand, rope, and cable (including wire strands of different metals (except ACSR))....						6,324	4,391	(NA)	(NA)	(NA)	(NA)
Iron and steel wire strand (including guard rail cable).....					5,156	54,459	17,023	(NA)	(NA)	(NA)	(NA)
Field fence.....						204,815	32,584	(NA)	(NA)	(NA)	(NA)
Woven wire netting (poultry, fur farm, stucco, etc.).....						55,439	13,572	(NA)	(NA)	(NA)	(NA)
Barbed and twisted wire.....						136,625	21,809	(NA)	(NA)	(NA)	(NA)
Wire bale ties.....						73,793	12,529	(NA)	(NA)	(NA)	(NA)
Welded steel wire fabric:						329,383	48,298	(NA)	(NA)	(NA)	(NA)
Concrete reinforcing mesh.....						51,272	12,899	(NA)	(NA)	(NA)	(NA)
Other welded steel wire fabric.....						269,362	41,523	264,746	40,769	4,616	754
Other rolled and drawn carbon steel products.....	(D)	271,112	...	(D)	2,819						
ALLOY STEEL (EXCEPT STAINLESS)											
Ingot.....	37,478	6,319,855	6,099,121	161,299	4,265	64,898	12,048	29,996	6,607	34,902	5,441
Semifinished shapes and forms:											
Blooms, billets, slabs, and sheet bars.....	704,914	4,012,139	3,611,238	67,573	4,686	954,892	125,133	441,620	60,882	513,272	64,251
Tube rounds and skelp.....	333,026	524,045	543,334	...	1,189	316,468	51,261	113,005	22,069	203,463	29,192
Wire rods.....	18,944	42,568	32,449	5,666	...	22,878	4,979	14,653	3,251	8,225	1,728
Finished shapes and forms:											
Plates.....	15,111	222,361	6,457	8,293	1,513	212,986	50,904	189,127	45,447	23,859	5,457
Sheets and strip:											
Sheets:											
Hot-rolled.....	39,352	249,389	27,996	8,320	41	237,784	47,408	192,304	41,109	45,480	6,299
Cold-rolled.....	5,882	58,081	(D)	1,037	146	58,523	10,455	51,293	9,608	7,230	847
Electrical <sup>3</sup> .....	(D)	600,120	(D)	(D)	...	598,472	142,579	2598,472	214,257	( <sup>2</sup> )	( <sup>2</sup> )
Strip:											
Hot-rolled.....	11,815	31,985	7,139	4	6	36,872	6,948	19,848	4,148	17,024	2,800
Electrical.....	( <sup>3</sup> )	( <sup>3</sup> )	...	( <sup>3</sup> )	...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Cold-rolled.....	7,808	19,979	2,542	240	48	25,472	12,862	12,553	10,050	12,919	2,811

See footnotes at end of table.



Table 6C.—Steel Mill Products. Receipts, Production, Consumption, and Shipments. 1954—Continued

Product	Receipts <sup>1</sup> (Short ton)	Production (Short ton)	Products consumed in producing plants			Total		To other companies		Transfers to other plants of the same company		
			In the manufacture of other steel shapes and forms (Short ton)	In the manufacture of fabricated products (Short ton)	As maintenance, repair, and operating supplies (Short ton)	Quantity (Short ton)	Value (\$1,000)	Quantity (Short ton)	Value (\$1,000)	Quantity (Short ton)	Value (\$1,000)	
ALLOY STEEL (EXCEPT STAINLESS)—Con.												
Finished shapes and forms—Con.												
Structural shapes.....												
Bars:												
Hot-rolled.....												
Cold-finished.....												
Tool steel bars:												
High speed.....												
Other than high speed.....												
Pipe and tubes:												
Oil country goods.....												
Pressure tubing.....												
Mechanical tubing.....												
Other, including standard and line.....												
Wire.....												
Other rolled and drawn alloy steel products.....												
STAINLESS STEEL												
Ingots.....												
Semifinished shapes and forms:												
Blooms, billets, slabs, and sheet bars.....												
Tube rounds, skelp and wire rods.....												
Finished shapes and forms:												
Plates.....												
Sheets and strip:												
Sheets:												
Hot-rolled.....												
Cold-rolled.....												
Strip:												
Hot-rolled.....												
Cold-rolled.....												
Bars:												
Hot-rolled.....												
Cold-finished.....												
Pipe and tubes:												
Pressure tubing.....												
Mechanical tubing.....												
Wire.....												
Other rolled and drawn stainless steel products.....												

NA Not available.

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Excludes receipts and shipments of steel processed on a conversion basis for non-steel producing companies.<sup>2</sup>Interplant transfers are included with shipments to other companies.<sup>3</sup>Electrical strip is included with electrical sheets.<sup>4</sup>See footnote 3, table 6B.<sup>5</sup>Not strictly comparable with data published for previous years in Facts for Industry Series M22B, "Steel Mill Products" in that 1954 data represent receipts and consumption for steel works only, whereas comparable data in the M22B Series represent receipts and consumption for steel works and wire drawing establishments.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6D.--Steel Mill Products: Net Shipments: 1954-1958

(Short tons)

Product	Net shipments <sup>1</sup>				
	1958	1957	1956	1955	1954
TOTAL.....	60,557,879	80,211,365	84,283,716	84,822,230	64,718,336
Carbon steel, total.....	56,676,520	74,640,468	77,923,704	78,318,818	60,319,624
Ingot and semifinished shapes and forms (blooms, billets, etc.).....	1,156,263	2,107,238	2,972,497	2,938,624	1,687,511
Finished shapes and forms:					
Plates:					
Floor plates.....	148,313	212,382	221,595	191,382	153,921
Other than floor plates.....	4,913,531	8,622,405	7,338,988	6,417,025	5,166,778
Sheet and strip:					
Sheets:					
Hot-rolled and enameling.....	6,119,513	7,500,839	8,184,360	9,032,713	6,189,074
Cold-rolled.....	10,194,400	11,680,593	13,009,611	14,524,025	9,394,167
Galvanized.....	2,769,497	2,363,298	2,945,915	2,862,542	2,291,841
Electrical (sheet and strip).....	41,269	60,557	89,922	74,006	75,600
Long ternes.....	124,499	167,746	176,242	226,487	150,000
Strip:					
Hot-rolled.....	919,440	1,264,927	1,605,039	1,793,369	1,488,051
Cold-rolled.....	642,772	815,426	1,154,153	1,586,615	1,345,455
Galvanized.....	197,521	139,347	160,626	109,063	75,911
Tin mill products:					
Black plate (including chemically treated black plate).....	601,581	576,188	728,395	774,284	764,291
Tin plate:					
Hot-dipped.....	442,609	642,997	936,390	1,072,592	1,250,927
Electrolytic.....	5,083,113	4,564,117	4,493,385	4,364,489	3,599,008
Terne plate (short ternes).....		20,876	31,536	39,552	34,656
Structural shapes.....	4,479,132	7,151,334	5,756,535	5,220,946	5,263,706
Piling.....		520,333	435,494	350,048	
Bars:					
Hot-rolled bars (except concrete reinforcing):					
Hollow drill steel.....	4,525,545	6,089,773	6,806,763	18,590	25,343
All other.....				6,281,867	4,524,205
Concrete reinforcing bars:					
Rolled from new billets.....	2,408,574	2,438,813	2,541,081	2,188,116	1,745,393
Rolled from old materials (rails, axles, etc.).....		189,911	293,209	277,099	224,244
Cold-finished bars.....	933,526	1,168,363	1,506,677	1,640,283	1,038,876
Tool-steel bars.....	6,835	10,586	10,324	11,094	8,808
Rails, wheels, and track accessories:					
Rails:					
Standard tee (over 60 lb. per yard).....	529,054	1,205,569	1,201,650	1,099,936	1,100,942
Light tee (60 lb. per yard and under).....	39,333	79,939	83,431	62,354	54,043
All other (girder, guard, etc.).....					28,779
Rail joints and tie plates.....	152,117	337,446	421,468	439,369	348,139
Wheels, rolled (including tires and rims).....	174,944	408,374	371,835	315,110	218,153
Pipe and tubes:					
Standard pipe.....	2,222,942	2,935,311	3,111,647	3,111,128	2,410,413
Line pipe.....	2,393,687	3,801,928	3,113,950	2,838,057	2,426,928
Oil country goods.....	895,864	2,295,832	2,107,107	2,109,710	1,988,864
Pressure tubing.....	217,373	327,875	318,563	252,111	208,073
Mechanical tubing.....	614,278	778,367	940,995	911,341	669,641
Miscellaneous.....	248,449	295,250	317,987	259,214	216,447
Wire:					
Plain.....	2,034,555	2,168,962	2,529,404	2,694,231	1,813,113
Galvanized.....	327,865	356,863	425,246	467,027	371,467
Other coated wire.....	84,066	84,910	91,990	83,948	65,320
Wire products: <sup>2</sup>					
Nails and staples.....	429,521	462,211	574,257	667,145	
Barbed and twisted wire.....	57,619	59,382	75,263	115,105	
Wire fence, woven and welded.....	137,910	195,763	237,309	276,390	
Bale ties.....	54,999	72,989	75,170	89,567	
Wire rope.....	77,678	96,102	103,585	100,010	
Wire strand.....	70,781	76,286	80,139	73,143	
Woven wire netting.....	49,743	102,343	131,102	127,114	
Other rolled and drawn carbon steel products.....	155,809	190,717	212,869	231,997	275,238

See footnotes at end of table.



## BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS

33A-27

Table 6D.—Steel Mill Products: Net Shipments: 1954-1958 —Continued

(Short tons)

Product	Net shipments <sup>1</sup>				
	1958	1957	1956	1955	1954
Alloy steel (except stainless), total.....	3,417,518	4,964,539	5,691,871	5,859,823	3,959,870
Ingot and semifinished shapes and forms (blooms, billets, etc.).....	512,827	721,822	870,080	906,921	509,452
Finished shapes and forms:					
Plates.....	329,117	516,630	437,990	293,945	207,681
Sheet and strip:					
Sheet:					
Hot-rolled.....	227,079	318,821	398,536	383,765	206,793
Cold-rolled.....	56,196	52,714	64,889	68,921	53,824
Electrical (sheet and strip).....	400,250	578,865	696,282	668,921	515,648
Strip:					
Hot-rolled.....	25,577	36,722	43,444	40,364	25,067
Cold-rolled.....	9,995	14,216	17,807	16,024	17,952
Structural shapes.....	40,004	68,905	50,023	77,454	35,668
Bars:					
Hot-rolled.....	1,129,814	1,501,657	1,873,251	2,165,823	1,464,694
Cold-finished.....	158,764	232,626	305,220	311,045	200,265
Tool-steel bars:					
High speed.....	7,306	15,197	18,760	20,187	15,661
Other than high speed.....	41,107	58,094	66,683	54,458	39,373
Pipe and tubes:					
Oil country goods.....	427,993	473,943	427,996	447,581	362,346
Mechanical tubing.....		227,575	271,048	271,092	172,319
Pressure tubing.....		74,845	68,409	36,521	47,545
Standard, line, and miscellaneous.....		6,317	2,180	3,858	15,865
Wire.....	40,607	50,096	60,627	55,933	52,422
Other rolled and drawn alloy steel products.....	10,882	15,494	18,646	37,010	17,295
Stainless steel, total.....	463,841	606,358	668,141	643,589	438,842
Ingot and semifinished shapes and forms (blooms, billets, etc.).....	16,626	25,484	( <sup>1</sup> )	69,343	36,796
Finished shapes and forms:					
Plates.....	35,998	47,316	48,371	33,975	31,094
Sheet and strip:					
Sheet:					
Hot-rolled.....	5,998	11,606	79,578	3,117	1,563
Cold-rolled.....	89,828	100,979	123,192	111,609	77,089
Strip:					
Hot-rolled.....	1,444	( <sup>1</sup> )	3,377	( <sup>1</sup> )	( <sup>1</sup> )
Cold-rolled.....	170,979	236,163	227,966	270,673	181,404
Bars:					
Hot-rolled.....	33,284	48,625	61,664	36,227	30,464
Cold-finished.....	46,566	65,312	65,701	62,875	38,201
Pipe and tubes:					
Pressure tubing.....	17,835	27,086	25,581	13,300	12,791
Mechanical tubing.....	6,852	8,956	9,774	7,713	5,112
Wire.....	28,354	31,208	39,185	36,787	21,937
Other rolled and drawn stainless steel products.....	10,077	4,205	5,711	3,861	2,552

Source: Current Industrial Reports (formerly identified as Facts for Industry Series) M33B, Steel Mill Products.

<sup>1</sup>Derived by subtracting the steel mills' receipts of each steel mill shape from the total of shipments to other companies, transfers to other plants, and tonnage consumed in the steel mill in the production of fabricated products and as maintenance, repair, and operating supplies. For practical purposes, net shipments amount to zero for some products. Due to material in transit, this results in negative figures for a few items. Negative figures have been replaced by footnote 1 where these occur, but they have been subtracted from the total net shipments. Where products are grouped together for calculation of net shipments, some of the individual products within the group may have negative figures. In such cases, the negative figures for the individual products were subtracted from the net shipments of the other products and an over-all net shipments total is shown.

<sup>2</sup>Represents wire products produced within steel works and wire drawing establishments.

<sup>3</sup>Also includes steel cut nails, spikes, and brads and welded steel wire fabric.

Table 6E.—Pig Iron Shipped from Blast Furnaces: 1958 and 1954

Product description	Total shipments including interplant transfers			
	1958		1954	
	Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value <sup>1</sup> (\$1,000)
Pig iron, total reported to the Census.....	257,050,000	(NA)	57,970,178	2,490,038
Pig iron, by grade: <sup>3</sup>				
Total.....	56,917,937	3,392,308	57,782,686	2,885,240
Foundry.....	1,619,453	92,387	4,795,471	228,570
Basic.....	47,674,412	2,847,545	45,285,844	2,269,324
Bessemer.....	3,701,059	218,973	4,812,890	240,683
Low-phosphorus.....	1,363,387	78,283	188,283	10,811
Malleable.....	2,302,762	140,629	2,573,054	129,521
All other (not ferro-alloys).....	256,864	14,491	127,144	6,331

<sup>1</sup>Value of pig iron shipped differs appreciably from the value shown in table 6A, in that transfers of pig iron to other plants of the same company are included at an estimated commercial value by the Bureau of Mines. <sup>2</sup>Represents total production. <sup>3</sup>Source: Bureau of Mines of the Department of Interior.

Table 6F.—Quantity and Value of Ferroalloys Shipped by All Producers in the United States: 1958 and 1954

Product description	Total shipments including interplant transfers			
	1958		1954	
	Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)
Ferroalloys and other additives, total reported to the Census....	1,756,999	(NA)	1,723,544	\$368,342
Ferroalloys, by type: <sup>2</sup>				
Total.....	1,695,497	424,044	1,707,305	344,038
Ferromanganese.....	608,099	145,647	799,710	159,342
Ferrosilicon.....	319,791	54,879	266,584	38,292
Ferrophosphorus.....	75,124	3,253	36,089	1,201
Ferrotitanium.....	4,612	3,294	4,805	1,998
Silvery iron.....	224,521	18,257	328,803	24,506
Ferrochromium.....	307,121	72,806	187,780	130,159
Other.....	3156,229	368,555	83,534	45,893

<sup>1</sup>Represents total production. <sup>2</sup>Source: Bureau of Mines, Department of Interior. <sup>3</sup>Includes 82,013 short tons of silicomanganese valued at \$20,638,000.

Table 6G.—Production of Steel Ingots, by Grade of Steel, by Divisions and States: 1958 and 1954

(In short tons)

Division and State	1958 <sup>1</sup>			1954		
	Total	Carbon	Alloy (including stainless)	Total	Carbon	Alloy (including stainless)
United States, total.....	85,148,773	78,578,866	6,569,907	88,316,091	81,145,687	7,170,404
New England.....	157,670	(D)	(D)	329,584	(D)	(D)
Massachusetts, Rhode Island and Connecticut.....	157,670	(D)	(D)	329,584	(D)	(D)
Middle Atlantic.....	24,951,649	(D)	(D)	26,898,013	(D)	(D)
New York and New Jersey.....	4,159,940	(D)	(D)	4,863,433	(D)	(D)
Pennsylvania.....	20,791,709	18,067,536	2,724,173	22,034,580	19,220,244	2,814,336
East North Central.....	37,886,401	34,903,423	2,982,978	40,119,860	36,591,843	3,528,017
Ohio.....	13,789,724	12,279,676	1,510,048	16,419,819	14,612,557	1,807,262
Indiana.....	12,617,698	12,189,517	428,181	12,354,639	11,912,583	442,056
Illinois.....	6,911,195	6,375,438	535,757	7,121,072	6,443,261	677,811
Michigan and Wisconsin.....	4,567,784	4,058,792	508,992	4,224,330	3,623,442	600,888
South Atlantic.....	9,061,111	(D)	(D)	8,347,855	(D)	(D)
Delaware, Maryland, Virginia, West Virginia and Georgia.....	9,061,111	(D)	(D)	8,347,855	(D)	(D)
East South Central.....	4,538,957	4,397,679	141,278	4,498,086	4,392,678	105,408
Kentucky.....	1,197,012	(D)	(D)	1,003,094	(D)	(D)
Mississippi and Tennessee.....	37,657	(D)	(D)	3,494,992	(D)	(D)
Alabama.....	3,304,288	(D)	(D)			
West South Central.....	1,528,737	(D)	(D)	1,521,843	(D)	(D)
Oklahoma and Texas.....	1,528,737	(D)	(D)	1,521,843	(D)	(D)
Pacific.....	2,878,863	(D)	(D)	2,572,785	(D)	(D)
Washington and Oregon.....	303,723	(D)	(D)	310,288	(D)	(D)
California.....	2,575,140	2,508,561	66,579	2,262,497	2,197,117	65,380
Other divisions <sup>2</sup> .....	4,145,385	(D)	(D)	4,028,065	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.  
North Central and Mountain.

<sup>1</sup>Source: Annual Survey Form MA33B, Steel Mill Products.

<sup>2</sup>Includes West



Table 6H.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<b>Steel ingot and semifinished shapes (33122):</b>	1958 <sup>1</sup>	<b>Steel wire (33125 and 33155)--Continued</b>	1958 <sup>1</sup>	<b>Cold finished steel bars and bar shapes (33128 and 33168):</b>	
United States, total.....	1,846,924		1954	United States, total:	
Middle Atlantic.....	655,460	East North Central.....	222,396	1958.....	338,924
Pennsylvania.....	579,595	Ohio.....	58,185	1957.....	418,077
East North Central.....	933,010	Indiana.....	29,132	1956.....	477,596
Ohio.....	419,116	Illinois.....	117,142	1955.....	452,053
Illinois.....	207,007	South Atlantic.....	42,990	1954.....	277,078
East South Central.....	142,825	Pacific.....	28,788	1947.....	200,278
Pacific.....	10,671	California.....	28,788		
				1958 <sup>1</sup>	1954
<b>Hot rolled sheet and strip, including tin-mill products (33123):</b>		<b>Steel pipe and tube (33126 and 33176):</b>	Value of shipments	New England.....	11,247
United States, total.....	3,169,294	United States, total:		Middle Atlantic.....	139,275
Middle Atlantic.....	606,395	1958.....	1,723,643	Pennsylvania.....	97,529
East North Central.....	1,455,373	1957.....	2,527,869	East North Central.....	170,986
Ohio.....	554,756	1956.....	2,164,395	Ohio.....	51,775
Indiana.....	548,840	1955.....	1,939,684	Indiana.....	54,024
Illinois.....	108,966	1954.....	1,551,131	Illinois.....	38,627
Michigan.....	242,811	1953.....	1,825,791	Pacific.....	6,196
South Atlantic.....	592,321	1952.....	1,463,491		
		1947.....	841,875	<b>Press and hammer steel forgings (33129 and 33919):</b>	Value of shipments
<b>Hot rolled bars and bar shapes, plates, structural shapes, and piling (33124):</b>				United States, total:	
United States, total.....	2,879,672	New England.....	2,942	1958.....	220,864
Middle Atlantic.....	1,161,078	Middle Atlantic.....	601,797	1957.....	289,080
Pennsylvania.....	935,006	New York.....	25,077	1956.....	280,133
East North Central.....	1,034,237	New Jersey.....	27,860	1955.....	218,987
Ohio.....	259,168	Pennsylvania.....	548,860	1954.....	188,323
Illinois.....	374,626	East North Central.....	716,615	1953.....	363,808
South Atlantic.....	177,098	Ohio.....	453,051	1952.....	318,571
East South Central.....	118,828	Illinois.....	60,298	1951.....	283,682
Alabama.....	109,280	Michigan.....	49,111	1950.....	163,199
West South Central.....	66,629	East South Central.....	54,873	1947.....	127,984
Pacific.....	194,608	West South Central.....	116,235		
California.....	166,506	Pacific.....	95,777	1958 <sup>1</sup>	1954
				New England.....	6,766
<b>Steel wire (33125 and 33155):</b>	Value of shipments	<b>Cold rolled steel sheet and strip (33127 and 33167):</b>	Value of shipments	Middle Atlantic.....	155,885
United States, total:		United States, total:		New York.....	4,896
1958.....	564,734	1958.....	2,091,623	New Jersey.....	6,243
1957.....	626,262	1957.....	2,329,029	Pennsylvania.....	144,746
1956.....	659,634	1956.....	2,480,700	East North Central.....	37,328
1955.....	650,964	1955.....	2,586,904	Ohio.....	10,300
1954.....	464,992	1954.....	1,642,491	Illinois.....	12,244
1947.....	313,793	1947.....	804,122	Michigan.....	10,678
				West North Central.....	4,588
1958 <sup>1</sup>	1954			Pacific.....	15,745
New England.....	54,991	New England.....	53,724	California.....	12,658
Massachusetts.....	47,677	Massachusetts.....	9,932		8,471
Middle Atlantic.....	142,744	Connecticut.....	37,996	<b>Noninsulated ferrous wire rope, cable, and strand (33151 and 34811):</b>	Value of shipments
New York.....	27,775	Middle Atlantic.....	573,677	United States, total:	
New Jersey.....	41,522	Pennsylvania.....	446,180	1958.....	163,386
Pennsylvania.....	111,647	East North Central.....	1,166,564	1957.....	253,741
		Ohio.....	529,221	1956.....	263,480
		Indiana.....	298,243	1955.....	225,540
		Illinois.....	48,516	1954.....	193,944
		Michigan.....	290,578	1953.....	232,806
		South Atlantic.....	127,744	1952.....	246,096
		Pacific.....	32,089	1951.....	234,164
		California.....	32,089	1950.....	190,236
				1947.....	128,338
				1958 <sup>1</sup>	1954
				New England.....	2,694

See footnotes at end of table.

Table 6H.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954
<b>Noninsulated ferrous wire rope, cable and strand (33151 and 34811)—Continued</b>			<b>Fencing and fence gates (33156 and 34816)—Continued</b>			<b>Other fabricated wire products (33159 and 34819):</b>		
Middle Atlantic.....	72,294	( <sup>2</sup> )	East North Central.....	35,761	39,873	United States, total:		
New York.....	2,587	( <sup>2</sup> )	Ohio.....	2,160	( <sup>2</sup> )	1958.....	405,656	
New Jersey.....	29,037	22,785	Illinois.....	25,143	28,638	1957.....	407,537	
Pennsylvania.....	40,670	34,708	West North Central.....	9,803	4,254	1956.....	385,927	
East North Central.....	22,430	30,886	Missouri.....	2,302	1,742	1955.....	345,236	
Ohio.....	4,100	10,244	South.....	25,212	24,324	1954.....	313,382	
Illinois.....	8,022	9,391	Texas.....	12,354	( <sup>2</sup> )	1953.....	370,380	
West North Central.....	19,911	18,561	West.....	15,823	10,172	1952.....	346,150	
South Atlantic.....	9,188	( <sup>2</sup> )	California.....	11,906	( <sup>2</sup> )	1951.....	338,569	
Pacific.....	12,217	21,322				1950.....	252,628	
						1947.....	214,690	
			<b>Wire cloth and other woven wire products (including non-ferrous)* (33157, 33573, and 34817):</b>				1958 <sup>1</sup>	1954
<b>Steel nails and spikes (33152):</b>			United States, total:			New England.....	22,854	28,333
United States, total.....	159,363		1958.....	156,995		Massachusetts.....	10,016	11,284
New England.....	22,034		1957.....	153,259		Connecticut.....	11,812	15,560
Massachusetts.....	9,735		1956.....	160,179		Middle Atlantic.....	138,115	110,447
Connecticut.....	2,167		1955.....	150,341		New York.....	45,598	40,199
Middle Atlantic.....	22,429		1954.....	131,175		New Jersey.....	11,007	10,780
New York.....	3,436		1953.....	144,415		Pennsylvania.....	81,510	59,467
New Jersey.....	2,167		1952.....	127,126		East North Central.....	131,393	97,057
Pennsylvania.....	16,826		1951.....	155,255		Ohio.....	22,819	16,315
East North Central.....	56,005		1950.....	135,072		Indiana.....	26,068	14,433
Ohio.....	6,455		1947.....	90,792		Illinois.....	55,943	50,072
Illinois.....	40,232					Michigan.....	22,286	14,385
West North Central.....	10,885		New England.....	20,198	15,530	Wisconsin.....	4,277	1,851
South.....	20,145		Massachusetts.....	12,551	9,424	West North Central.....	35,246	21,155
West.....	24,949		Middle Atlantic.....	42,834	44,526	Minnesota.....	7,983	3,342
California.....	5,938		New York.....	8,730	6,693	Iowa.....	4,368	3,295
			New Jersey.....	12,780	9,956	Missouri.....	19,027	13,114
<b>Fencing and fence gates (33156 and 34816):</b>			Pennsylvania.....	21,324	27,876	South Atlantic.....	14,639	6,986
United States, total:			East North Central.....	57,667	45,516	Maryland.....	7,054	4,185
1958.....	103,309		Ohio.....	14,299	13,229	Georgia.....	2,169	1,445
1957.....	98,599		Indiana.....	1,238	1,586	Florida.....	3,969	( <sup>3</sup> )
1956.....	105,785		Illinois.....	20,614	21,710	East South Central.....	15,220	15,494
1955.....	106,553		Michigan.....	5,739	2,473	Tennessee.....	5,873	( <sup>2</sup> )
1954.....	92,909		Wisconsin.....	15,777	6,517	Alabama.....	9,170	11,270
1953.....	92,280		West North Central.....	8,343	( <sup>2</sup> )	West South Central.....	13,315	7,552
1952.....	99,333		South Atlantic.....	6,844	( <sup>2</sup> )	Texas.....	7,312	5,867
1951.....	114,081		Florida.....	1,322	( <sup>3</sup> )	Mountain.....	11,836	9,233
1950.....	111,246		East South Central.....	8,069	( <sup>2</sup> )	Pacific.....	23,038	17,125
1947.....	63,297		West South Central.....	1,392	(NA)	Washington.....	1,688	1,086
			West.....	11,648	( <sup>2</sup> )	California.....	21,055	15,673
			California.....	8,338	( <sup>2</sup> )			
New England.....	4,463	1,182						
Massachusetts.....	1,506	( <sup>3</sup> )						
Middle Atlantic.....	12,247	13,104						
New York.....	3,697	2,525						
Pennsylvania.....	8,347	10,438						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 33121 and 33130, Massachusetts, Connecticut, New York, New Jersey, Indiana, Wisconsin, Minnesota, Iowa, Missouri, Maryland, Virginia, South Carolina, Kentucky, Tennessee, Texas, Montana, Colorado, Utah, Washington, Oregon, and California; 33122, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Indiana, Michigan, Minnesota, Missouri, Maryland, West Virginia, Kentucky, Alabama, Texas, Colorado, Washington, and California; 33123, Rhode Island, New York, New Jersey, Pennsylvania, Maryland, West Virginia, Georgia, Kentucky, Alabama, Utah, and California; 33124, Massachusetts, New York, New Jersey, Indiana, Michigan, Wisconsin, Missouri, Delaware, Maryland, Virginia, West Virginia, Georgia, Kentucky, Tennessee, Mississippi, Oklahoma, Texas, Colorado, Utah, Washington, and Oregon; 33125 and 33155, Connecticut, Michigan, Wisconsin, Minnesota, Missouri, Maryland, Virginia, Georgia, Florida, Alabama, Texas, and Colorado; 33126 and 33176, Connecticut, Indiana, Wisconsin, Missouri, Delaware, Maryland, West Virginia, Kentucky, Tennessee, Alabama, Louisiana, Texas, Colorado, and California; 33127 and 33167, Rhode Island, New York, New Jersey, Maryland, West Virginia, Kentucky, and Alabama; 33128 and 33168, Massachusetts, Connecticut, New York, New Jersey, Michigan, Wisconsin, Maryland, Alabama, and California; 33129 and 33919, Rhode Island, Indiana, Wisconsin, Oklahoma, Texas, Washington, and Oregon; 33120, New York, New Jersey, Indiana, Illinois, Delaware, West Virginia, Alabama, Colorado, and California; 33151 and 34811, Massachusetts, Connecticut, Indiana, Michigan, Wisconsin, Missouri, Maryland, Virginia, Georgia, Tennessee, Texas, Washington, and California; 33152, New Hampshire, Rhode Island, Indiana, Minnesota, Iowa, Missouri, Maryland, West Virginia, North Carolina, Georgia, Alabama, Texas, and Colorado; 33156 and 34816, Connecticut, Indiana, Michigan, Minnesota, Iowa, Maryland, Alabama, and Colorado; 33157, 33573, and 34817, Connecticut, Minnesota, Missouri, Maryland, Georgia, Kentucky, Alabama, Texas, and Washington; 33159 and 34819, Kansas and Colorado.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

<sup>4</sup>Differs from totals shown in tables 5B and 6A. Data in those tables relate to iron and steel products only. Data in this table include both ferrous and nonferrous wire cloth and other woven wire products.



Table 7A.—Materials Consumed by Blast Furnaces and Steel Mills Industry (SIC 3312)  
by Degree of Integration: 1958 and 1954

Code	Materials	Unit of measure	1958								Total 1954	
			Total		Fully integrated works <sup>1</sup>		Partially integrated works <sup>1</sup>		Nonintegrated works <sup>1</sup>		Quantity	Delivered cost
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)		
	Materials, containers, and supplies, total.	.....	xxx	26,865,454	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )
121111	Coal used in the production of coke.....	Short tons	76,311,465	731,189	57,259,675	552,903	...	...	19,051,790	178,286	84,003,834	752,918
101111	Iron ore.....	Gross wt. short tons	97,233,251	1,162,195	67,630,106	804,880	17,039,027	218,675	12,564,118	138,640	101,472,816	3989,509
106211	Manganese ore (containing 10 percent or more manganese).....	....do....	852,262	52,648	(D)	(D)	(D)	(D)	(D)	(D)	32,039,060	356,605
331251	Pig iron.....	Short tons	45,449,575	264,193	(D)	(D)	3,993,380	200,478	(D)	(D)	(NA)	(NA)
941011	Iron and steel scrap except rails for rerolling (purchased scrap only).....	....do....	18,232,612	633,118	9,336,141	294,793	8,690,096	328,394	256,375	9,931	23,803,539	611,020
331281	Steel rails for rerolling.....	....do....	529,358	30,190	...	...	55,511	2,649	473,347	27,541	633,588	26,201
	Nonferrous metals, alloys and ferro-alloys (ingot, pig, shot, etc.):											
333411	Aluminum.....	....do....	35,028	14,875	20,145	7,988	(D)	(D)	(D)	(D)	34,491	13,115
333925	Nickel.....	....do....	42,022	58,758	(D)	(D)	36,825	50,990	(D)	(D)	33,461	37,734
333311	Zinc.....	Short tons	247,076	50,483	138,258	29,501	(D)	(D)	(D)	(D)	(NA)	(NA)
331311	Ferromanganese.....	....do....	5620,241	158,793	432,957	110,814	187,284	47,979	...	...	6689,453	6145,890
331312	Spiegeleisen.....	....do....	722,422	2,232	11,165	1,121	11,257	1,111	...	...	640,287	63,367
331314	Ferrosilicon (over 6 percent silicon).....	....do....	186,377	32,475	91,056	14,785	95,321	17,690	...	...	204,333	27,690
331315	Ferrotungsten.....	....do....	650	2,223	(D)	(D)	(D)	(D)	...	...	(NA)	(NA)
331316	Ferrocromium.....	....do....	180,563	73,863	24,051	9,426	156,512	64,437	...	...	174,569	67,879
331313	} Other ferroalloys.....	....do....	(NA)	62,048	(NA)	23,394	(NA)	38,654	...	...	(NA)	842,122
331317		....do....	(NA)	62,048	(NA)	23,394	(NA)	38,654	...	...	(NA)	842,122
331318		....do....	(NA)	62,048	(NA)	23,394	(NA)	38,654	...	...	(NA)	842,122
281111	Sulfuric acid (100% H <sub>2</sub> SO <sub>4</sub> ).....	....do....	91,109,403	(NA)	691,509	(NA)	169,297	(NA)	248,597	5,491	91,557,756	(NA)
331205	Ingots, semifinished shapes and other steel shapes purchased for further processing.....	.....	xxx	1,715,465	xxx	221,469	xxx	220,966	xxx	1,273,030	xxx	(NA)
970099	All other materials, containers and supplies.....	.....	xxx	101,795,703	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )
973000	Materials, containers and supplies, nsk.....	.....	xxx	25,003	xxx	...	xxx	4,895	xxx	20,108	xxx	...

NA Not available.

D Withheld to avoid disclosing the operations of individual companies.

<sup>1</sup>See footnote 1, table 3, for definition of fully integrated, partially integrated and nonintegrated works.<sup>2</sup>Total cost of materials, etc. contains extensive duplication. This duplication arises because the products of some establishments are used by other establishments in the same industry. For the industry as a whole the extent of this duplication is approximated by totaling the cost of pig iron and ingots, semi-finished shapes and other steel shapes purchased for further processing. The estimated unduplicated cost of materials for 1958 obtained by this method is \$4,886 million. It is not possible to measure with any degree of accuracy the extent of this duplication for the subindustries of the blast furnaces and steel mills industry because such purchases cross subindustry lines. Also, it is not possible to measure this duplication for 1954 because of different methods used to collect the basic data.<sup>3</sup>In 1954, ore containing 5 percent or more manganese was included as manganese ore.<sup>4</sup>In addition, 47,499 thousand short tons of pig iron were produced and consumed in the same establishment. Total consumption of pig iron in 1954 totaled 51,862 thousand short tons.<sup>5</sup>In addition, 59,408 short tons of ferromanganese were produced and consumed in the same establishment.<sup>6</sup>Includes quantities of ferroalloys produced and consumed in the same establishment for which an estimated "cost" is included.<sup>7</sup>Excludes spiegeleisen produced and consumed in the same establishment.<sup>8</sup>Includes ferrotungsten.<sup>9</sup>Includes sulfuric acid produced and consumed in the same establishment.<sup>10</sup>Includes cost of purchased sulfuric acid.

Table 7B.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 3313—ELECTROMETALLURGICAL PRODUCTS						
	Materials, containers, and supplies, total.....		xxx	188,882	xxx	135,216
106211	Manganese ore (10 percent or more manganese).....	Gross wt. short tons	505,391	25,695	1579,668 <sup>(2)</sup>	129,233 <sup>(2)</sup>
331316	Ferrochromium.....	Short tons	38,618	8,183		
	Other ferro alloys:					
333411	Aluminum alloys (ingot, pig, shot, etc.).....	...do...	3,687	1,796	( <sup>2</sup> )	( <sup>2</sup> )
333925	Nickel alloys (ingot, pig, shot, etc.).....	...do...	176	243	( <sup>2</sup> )	( <sup>2</sup> )
941011	Iron and steel scrap (purchased scrap only).....	...do...	296,296	6,198	291,777	5,663
970099	All other materials and supplies.....		xxx	146,767	xxx	100,320
Code	Material	Unit of measure	1958			
			Quantity	Delivered cost (\$1,000)		
INDUSTRY 3315—STEEL WIRE DRAWING						
	Materials, containers, and supplies, total.....				xxx	245,303
	Steel for drawing wire:					
	Rods:					
331261	Carbon steel.....	Short tons.....		852,130		126,420
331263	Alloy steel (except stainless).....	...do.....		12,123		3,669
331265	Stainless steel.....	...do.....		6,012		6,859
	Wire for redrawing:					
331273	Carbon steel.....	...do.....		44,803		12,952
331275	Alloy steel (except stainless).....	...do.....				
331277	Stainless steel.....	...do.....		4,809		6,598
	Nonferrous metal mill shapes for drawing wire:					
	Rods:					
335251	Aluminum and aluminum-base alloy.....	1,000 lbs.....		6,078		2,358
335151	Copper, unalloyed.....	...do.....		2,817		1,117
335155	Copper-base alloy.....	...do.....		1,987		628
	Wire for redrawing and bare wire:					
335123	Copper and copper-base alloy.....	...do.....		2,811		1,530
339217						
335255	Aluminum and aluminum-base alloy.....	...do.....			xxx	
339227						
339229	Other nonferrous wire.....	...do.....			xxx	2,088
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons.....		2,284		501
331212	Sheet and strip.....	...do.....		14,967		2,594
331217	Wire and wire products.....	...do.....		34,606		8,606
331213	All other carbon steel mill shapes and forms.....	...do.....		8,081		1,114
331219						
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	...do.....				
331225	All other alloy steel mill shapes and forms.....	...do.....			35	60
331231	Stainless steel.....	...do.....				
335119	Copper and copper-base alloy mill shapes and forms (except electrical wire).....	...do.....		1,728		826
	Other nonferrous metal mill shapes and forms:					
335218	Aluminum and aluminum-base alloy.....	...do.....			xxx	
335257						
335259	Other nonferrous metals.....	...do.....			xxx	1,044
335955						
970099	All other materials, and components, containers and supplies.....				xxx	50,179
973000	Materials nsk.....				xxx	16,160 <sup>3</sup>

<sup>1</sup>Includes ore with 5 percent or more manganese.<sup>2</sup>Included with "all other materials and supplies."<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, (b) total cost of materials reported for establishments which failed to report the costs of individual materials on "standard forms," and (c) discrepancies between total cost of materials and detailed materials on the reports for other establishments.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3312	BLAST FURNACES AND STEEL MILLS (entire industry).....	291	511,392	3,183,483	417,216	765,941	2,415,959	6,062,227	( <sup>1</sup> )	( <sup>1</sup> )	950,056
	Establishments with:										
	90% or more specialization.....	239	416,249	2,611,117	340,669	627,544	1,990,203	5,067,302	( <sup>1</sup> )	( <sup>1</sup> )	829,333
	75-89% specialization.....	25	54,171	315,107	43,742	76,728	236,866	552,532	( <sup>1</sup> )	( <sup>1</sup> )	47,548
33121	Coke oven and blast furnace products, including ferroalloys (primary product class of estab.)..	92	22,556	132,619	18,444	34,583	100,924	346,810	( <sup>1</sup> )	( <sup>1</sup> )	49,187
33122	Steel ingot and semi-finished shapes (primary product class of estab.)..	26	69,093	432,394	54,859	97,982	318,008	840,921	( <sup>1</sup> )	( <sup>1</sup> )	194,128
33123	Hot rolled sheet and strip, including tin mill products (primary product class of estab.)..	32	134,767	864,175	110,718	207,213	662,560	1,805,390	( <sup>1</sup> )	( <sup>1</sup> )	247,445
	Establishments with:										
	90% or more specialization....	7	4,767	30,269	4,032	7,810	23,498	53,868	( <sup>1</sup> )	( <sup>1</sup> )	26,276
	75-89% specialization.....	7	20,562	140,602	17,922	34,641	116,769	274,704	( <sup>1</sup> )	( <sup>1</sup> )	31,190
33124	Hot rolled bars and bar shapes, plates, structural shapes and piling (primary product class of estab.).....	77	135,308	811,200	107,968	192,719	599,104	1,405,907	( <sup>1</sup> )	( <sup>1</sup> )	263,524
	Establishments with:										
	90% or more specialization....	33	11,856	76,136	9,259	17,949	54,293	131,520	( <sup>1</sup> )	( <sup>1</sup> )	32,889
	75-89% specialization.....	12	15,802	98,141	12,260	22,283	68,872	146,785	( <sup>1</sup> )	( <sup>1</sup> )	21,628
33125	Steel wire (primary product class of estab.).....	10	15,303	97,952	12,900	25,107	77,162	166,898	( <sup>1</sup> )	( <sup>1</sup> )	13,986
33126	Steel pipe and tube (primary product class of estab.).....	13	58,522	351,963	49,108	87,866	271,601	613,313	( <sup>1</sup> )	( <sup>1</sup> )	60,759
33127	Cold-rolled sheet and strip (primary product class of estab.)..	18	59,349	389,602	49,800	94,083	309,194	723,991	( <sup>1</sup> )	( <sup>1</sup> )	107,186
33129	Press and hammer steel forgings (primary product class of estab.)..	6	5,050	30,291	4,047	7,785	21,296	43,613	( <sup>1</sup> )	( <sup>1</sup> )	5,828
33120	Other steel mill products, except wire products (primary product class of estab.).....	12	10,642	68,325	8,618	17,082	51,785	107,895	( <sup>1</sup> )	( <sup>1</sup> )	6,841
	Establishments with:										
	90% or more specialization....	7	1,066	6,358	851	1,560	4,804	8,551	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )
3315	STEEL WIRE DRAWING (entire industry)...	170	19,250	110,184	15,129	29,147	78,432	196,200	260,490	452,062	11,980
	Establishments with:										
	90% or more specialization.....	131	12,665	74,339	9,917	19,228	52,915	131,559	163,919	295,757	8,593
	75-89% specialization.....	10	3,119	18,753	2,409	4,560	13,284	29,975	56,232	85,627	1,244
33151	Non-insulated ferrous wire rope, cable and strand (primary product class of estab.).....	10	4,622	27,736	3,400	6,303	18,637	44,960	41,073	86,098	4,524
	Establishments with:										
	90% or more specialization....	4	2,289	14,036	1,684	3,064	8,946	21,392	17,212	38,304	2,534
33152	Steel nails and spikes (primary product class of estab.).....	67	4,285	19,539	3,543	6,635	14,396	37,572	38,573	71,337	2,177
	Establishments with:										
	90% or more specialization....	49	1,701	7,271	1,452	2,827	5,708	14,031	13,577	27,627	516
	75-89% specialization.....	4	276	1,051	242	443	856	2,839	1,459	4,301	( <sup>2</sup> )
33155	Steel wire (primary product class of estab.).....	58	7,460	46,477	5,798	11,408	33,005	80,481	143,738	224,658	4,315
	Establishments with:										
	90% or more specialization....	40	2,895	18,420	2,366	4,679	13,871	30,913	49,094	81,122	1,503
	75-89% specialization.....	9	3,280	20,911	2,475	4,806	14,517	36,425	70,768	106,451	1,788
33157	Ferrous wire cloth and woven wire products (primary product class of estab.).....	3	794	4,615	614	1,210	3,112	8,213	6,827	15,333	( <sup>2</sup> )
33159	Other fabricated ferrous wire products, except springs (primary product class of estab.).....	7	1,138	6,944	980	2,042	5,304	15,453	17,754	31,974	( <sup>2</sup> )
3316	COLD FINISHING OF STEEL SHAPES (entire industry).....	78	10,943	67,084	8,528	16,039	47,225	141,516	338,495	477,824	12,419
	Establishments with:										
	90% or more specialization.....	69	8,117	49,285	6,201	11,872	33,516	114,388	297,661	410,162	9,747
33167	Cold-rolled steel sheet and strip (primary product class of estab.)..	40	6,436	40,923	5,213	9,860	29,921	87,412	182,888	267,707	10,054
	Establishments with:										
	90% or more specialization....	32	4,018	25,310	3,197	6,203	17,590	62,913	147,006	207,664	7,419
33168	Cold-finished steel bars and bar shapes (primary product class of estab.).....	38	4,507	26,161	3,315	6,179	17,304	54,104	155,607	210,117	2,365

<sup>1</sup>Cost of materials and value of shipments are not shown for industries in which these figures contain extensive duplication. See Introduction

<sup>2</sup>Duplication in cost of materials and value of products.

<sup>3</sup>Less than \$500 thousand

# MANUFACTURES-INDUSTRY STATISTICS

Table 9A.—Departmental Operations by Degree of Integration for Blast Furnaces and Steel Mills (SIC 3312): 1958

Department	Man-hours of production workers (1,000)						Production worker wages (\$1,000)					
	Total	Fully integrated works <sup>1</sup>	Partially integrated works <sup>1</sup>			Non-integrated works <sup>1</sup>	Total	Fully integrated works <sup>1</sup>	Partially integrated works <sup>1</sup>			Non-integrated works <sup>1</sup>
			Total	With blast furnace	Without blast furnace				Total	With blast furnace	Without blast furnace	
Total, all departments...	765,941	414,645	241,046	86,303	154,743	110,250	2,415,959	1,312,044	759,276	279,163	480,113	344,639
Coke ovens.....	40,449	25,977	...	...	...	14,472	120,041	79,504	...	...	...	40,537
Blast furnaces.....	40,391	24,121	6,428	6,428	...	9,842	120,925	72,846	19,645	19,645	...	28,434
Steel department (furnaces).....	74,801	44,375	30,426	11,659	18,767	...	257,601	154,553	103,048	40,904	62,144	...
Rolling and finishing mills.....	298,417	171,695	71,810	21,417	50,393	54,912	949,242	537,825	229,053	68,824	160,229	182,364
Foundry (iron or steel)	7,912	4,538	2,575	1,182	1,393	799	23,068	13,077	7,536	3,886	3,650	2,455
Forging (presses, hammers or upsetters).	6,698	1,169	5,169	...	5,169	360	20,305	3,609	15,619	...	15,619	1,077
Other manufacturing or fabricating departments (nuts, bolts, containers, etc.)....	50,887	10,234	30,657	45,617	79,021	9,996	151,228	29,837	92,572	145,904	238,471	28,819
Service or auxiliary operations and all other activities.....	246,386	132,536	93,981				773,549	420,793	291,803			

<sup>1</sup>See footnote 1, table 3 for definition of fully integrated, partially integrated, and nonintegrated works.

Table 9B.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3315—STEEL WIRE DRAWING							
Electroplating.....	13	5	8	...	98	17	81	...
Galvanizing and other hot dip coating.....	36	12	18	6	422	29	184	209
Heat treating and annealing.....	51	20	19	12	674	45	144	485
Machine shop.....	53	16	22	15	839	43	262	534
Tool and die shop.....	33	20	12	1	206	41	(D)	(D)
Plate or structural fabrication.....	1	1	...	...	(D)	(D)	...	...
Stamping, blanking, and forming.....	21	10	4	7	569	18	60	491
Painting, lacquering, and enameling.....	17	13	3	1	69	21	(D)	(D)

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry 3315
Total number of establishments in the industry..	170
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	144
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95

D Withheld to avoid disclosing figures for individual companies.



# Iron and Steel Foundries

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## SIC Code and Title (1957 Edition)

3321—Gray Iron Foundries  
3322—Malleable Iron Foundries  
3323—Steel Foundries

## Iron and Steel Foundries

This group is comprised of three foundry industries, namely Industry 3321, Gray Iron Foundries, Industry 3322, Malleable Iron Foundries and Industry 3323, Steel Foundries. These foundry industries comprise establishments primarily engaged in manufacturing gray-iron castings, including cast gray-iron pipe and fittings (3321), malleable iron castings (3322) and steel castings (3323).

For these industries, captive production (that is, the tonnage of castings produced for incorporation into the final product of the plant or company) is a particularly important factor. Distinction is made between rough castings and castings which are machined or further processed and incorporated into other products. The removal of gates, risers, sprues, and tumbling, dipping, and sand blasting, do not constitute machining. Plants primarily engaged in manufacturing castings are included in the foundry industries; plants primarily engaged in further processing castings into parts for metal products or machinery are classified in other major groups.

For the 1958 Census of Manufactures separate establishment reports were received from all commercial (jobbing) foundries and from those captive foundries which were operated as separate establishments by the reporting companies. These two groups comprise the types of establishments included in Industries 3321, 3322, and 3323. However, where the captive foundry operation was completely integrated with the operation of the entire plant, no separate establishment report was received for the foundry activity. In these instances data were obtained on the tonnage of castings produced and consumed and on the number of employees usually engaged in the captive foundry operation. However, establishments with such foundry departments were classified on the basis of the plant's final product and accordingly, the general statistics on employment, payrolls, cost of materials, etc., are included in the data for such industries as plumbing fixtures (3431), and farm machinery and equipment (3522), etc.

The data shown in table 6A on shipments and transfers of iron and steel castings represent total shipments and transfers including the quantity of castings shipped by establishments classified in industries other than the foundry industries (3321, 3322, and 3323). For those industries where captive foundry departments are particularly important, data on the tonnage of castings produced and consumed are shown in table 7 of the individual industry reports covering the specific industries.

During 1958, the Bureau of the Census also collected and published monthly data on shipments of iron and steel castings. These monthly data were derived from a sample survey and were published in Current Industrial Reports

(previously identified as Facts For Industry) Series M33-1, Iron and Steel Castings. The M33-1 series includes data for both commercial and captive foundry production and shows separately shipments "for sale" and shipments "for own use."

It should be specifically noted that the value data on shipments of iron and steel castings in table 6A do not include the value of the large quantity of castings produced by establishments classified in other industries which produce castings only for incorporation into their own products or for internal use but not for sale as such.

## 3321—Gray Iron Foundries

This industry comprises establishments primarily engaged in manufacturing gray iron castings, including cast iron pressure and soil pipe and fittings. Establishments primarily engaged in manufacturing valves and fittings, except plumbers' brass goods and fittings, are classified in Industry 3494, Valves and Pipe Fittings, Except Plumbers' Brass Goods. For a detailed list of products of Industry 3321, refer to table 6A, product codes 3321111 to 3321498.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Gray Iron Foundries Industry in 1958 totaled \$1,435 million. This included shipments of gray iron castings (primary products), valued at \$1,335 million, shipments of other products (secondary products) valued at \$68 million, and miscellaneous receipts (mainly resales) of \$32 million.

This industry's shipments of gray iron castings (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 94 percent. Secondary products shipped by this industry in 1958 included steel castings, \$11 million and industrial patterns, \$8 million.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "sub-industries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 66 percent of the total industry shipments are represented by plants specializing in 33214, "All other" gray iron castings.

Industry 3321 shipments of gray iron castings (primary products) in 1958 represented 87 percent (coverage ratio) of these products valued at \$1,528 million shipped by all industries. In 1954, the coverage ratio was 87 percent. Other industries shipping gray iron castings (primary products) included Industry 3312, Blast Furnaces and Steel Mills, \$55 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of Industry 3321, e.g. 33211, 61 percent; 33212, 99 percent.



3322-Malleable Iron Foundries

This industry comprises establishments primarily engaged in manufacturing malleable iron castings. For a detailed list of products of Industry 3322, refer to table 6A, product codes 3322021 to 3322031.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Malleable Iron Foundries Industry in 1958 totaled \$215 million. This included shipments of malleable iron castings (primary products), valued at \$184 million, shipments of other products (secondary products) valued at \$30 million, and miscellaneous receipts (mainly resales) of \$1 million.

This industry's shipments of malleable iron castings (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 86 percent. Secondary products shipped by this industry in 1958 consisted mainly of "all other" gray iron castings (\$15 million).

Industry 3322 shipments of malleable iron castings (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$203 million shipped by all industries. In 1954, the coverage ratio was 89 percent. Other industries shipping malleable iron castings (primary products) consisted mainly of Industry 3323, Steel Foundries, \$5 million; and Industry 3321, Gray Iron Foundries, \$3 million.

3323-Steel Foundries

This industry comprises establishments primarily engaged in manufacturing steel castings. For a detailed list of products of Industry 3323, refer to table 6A, product codes 3323012 to 3323061.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Steel Foundries Industry in 1958 totaled \$596 million. This included shipments of steel castings (primary products), valued at \$503 million, shipments of other products (secondary products) valued at \$82 million, and miscellaneous receipts (mainly resales) of \$11 million.

This industry's shipments of steel castings (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 88 percent. Secondary products shipped by this industry in 1958 included "all other" gray iron castings, \$16 million.

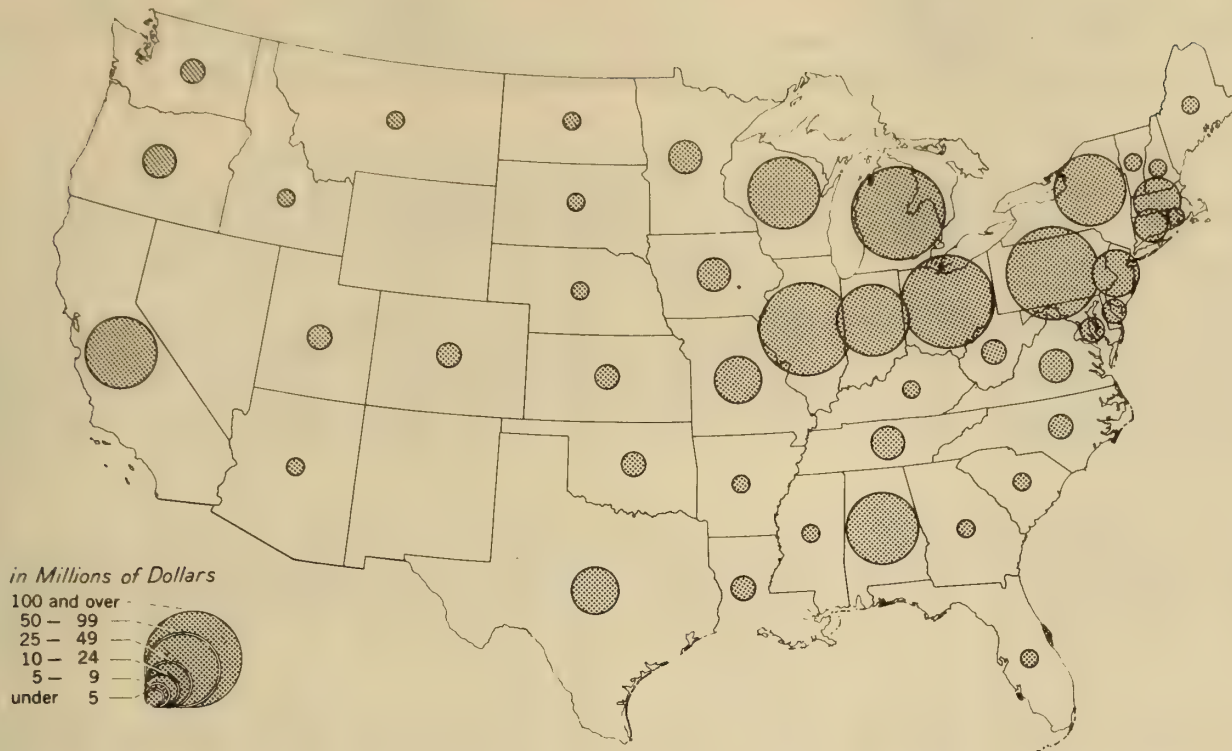
Industry 3323 shipments of steel castings (primary products) in 1958 represented 86 percent (coverage ratio) of these products valued at \$588 million shipped by all industries. In 1954, the coverage ratio was 87 percent. Other industries shipping steel castings (primary products) included Industry 3312, Blast Furnaces and Steel Mills, \$27 million; and Industry 3321, Gray Iron Foundries, \$11 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## IRON AND STEEL FOUNDRIES: SIC 332

Value Added by Manufacture by State: 1958



Includes Industries 3321, 3322 and 3323. See Table 2.

Bureau of the Census M-58-D332

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of <sup>5</sup> shipments	Capital expend- itures, new	Spec- ial- ization ratio <sup>6</sup>	Cov- er- age <sup>7</sup>
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3321 (old SIC 3321)	Gray iron foundries:														
	1958.....	1,211	1,310	848	112,670	531,152	96,414	178,006	418,935	810,758	622,696	1,434,701	32,559	95	87
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	136,040	626,185	118,615	227,157	509,526	954,202	737,429	1,689,827	61,560	94	85
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	142,765	661,108	125,367	252,429	542,627	1,051,075	777,562	1,816,296	57,377	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	144,669	656,572	128,097	265,620	549,081	1,049,422	735,162	1,772,932	57,014	(NA)	(NA)
	1954.....	1,321	1,414	940	133,914	557,535	118,288	230,234	459,049	847,436	592,835	1,441,880	49,939	94	87
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	144,600	611,625	128,418	(NA)	513,840	911,419	690,304	1,601,723	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	145,070	577,317	129,501	(NA)	487,270	811,251	615,584	1,426,837	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	164,762	632,663	149,001	(NA)	546,162	911,367	723,394	1,634,761	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	150,121	521,655	135,811	(NA)	450,455	763,701	540,266	1,303,967	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	138,691	432,633	122,856	(NA)	361,028	604,352	437,897	1,042,249	(NA)	(NA)	(NA)
	1947.....	1,554	1,655	(NA)	173,813	512,245	157,395	†328,537	441,716	732,807	440,232	1,173,039	(NA)	92	87
	1939.....	(NA)	1,254	(NA)	(NA)	(NA)	75,680	(NA)	89,047	169,278	108,564	277,842	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	1,227	(NA)	(NA)	(NA)	91,573	(NA)	112,148	200,155	122,405	322,560	(NA)	(NA)	(NA)
3322 (old SIC 3322)	Malleable iron foundries:														
	1958.....	74	82	74	20,230	100,579	16,694	31,366	77,148	127,592	86,790	214,537	4,438	86	90
	1957.....	(NA)	(NA)	(NA)	23,426	112,255	20,042	38,209	89,565	159,221	100,677	259,561	7,388	86	92
	1956.....	(NA)	(NA)	(NA)	25,121	117,136	21,599	42,573	95,016	171,330	109,904	280,781	8,451	(NA)	(NA)
	1955.....	(NA)	(NA)	(NA)	27,400	127,408	24,082	49,798	106,100	183,999	113,755	294,204	11,217	(NA)	(NA)
	1954.....	71	81	77	23,378	96,888	20,205	38,306	78,004	133,262	78,064	213,321	9,966	86	89
	1953.....	(NA)	(NA)	(NA)	28,438	121,024	24,706	(NA)	98,727	164,393	106,709	271,102	(NA)	(NA)	(NA)
	1952.....	(NA)	(NA)	(NA)	20,019	114,785	25,107	(NA)	92,933	153,661	94,511	248,172	(NA)	(NA)	(NA)
	1951.....	(NA)	(NA)	(NA)	32,289	126,548	28,388	(NA)	104,777	174,555	109,146	283,701	(NA)	(NA)	(NA)
	1950.....	(NA)	(NA)	(NA)	26,229	95,415	22,973	(NA)	78,097	126,997	80,606	207,603	(NA)	(NA)	(NA)
	1949.....	(NA)	(NA)	(NA)	24,440	75,728	20,642	(NA)	59,879	96,989	63,345	160,384	(NA)	(NA)	(NA)
	1947.....	68	78	(NA)	29,862	90,811	26,659	54,650	76,750	121,661	62,739	184,400	(NA)	88	91
	1939.....	(NA)	83	(NA)	20,186	26,415	18,041	(NA)	21,556	35,500	17,951	53,451	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	84	(NA)	(NA)	(NA)	23,713	(NA)	28,819	45,512	24,004	69,516	(NA)	(NA)	(NA)
3323 (old SIC 3323)	Steel foundries:														
	1958.....	210	256	216	49,133	254,338	40,134	74,390	186,778	383,870	203,683	596,276	19,272	86	86
	1957.....	(NA)	(NA)	(NA)	67,486	357,831	57,075	113,608	274,090	570,652	329,019	890,810	36,035	86	88
	1956.....	(NA)	(NA)	(NA)	70,412	365,095	60,305	124,782	288,717	594,103	331,920	901,041	31,767	(NA)	(NA)
	1955.....	(NA)	(NA)	(NA)	60,264	287,723	50,776	102,726	221,498	440,580	230,538	657,647	20,378	(NA)	(NA)
	1954.....	207	239	203	55,073	241,305	45,655	85,684	179,361	346,706	181,261	539,784	16,426	88	87
	1953.....	(NA)	(NA)	(NA)	76,949	345,347	65,940	(NA)	274,765	550,340	296,123	846,463	(NA)	(NA)	(NA)
	1952.....	(NA)	(NA)	(NA)	79,010	343,664	69,259	(NA)	282,394	505,547	299,087	804,634	(NA)	(NA)	(NA)
	1951.....	(NA)	(NA)	(NA)	73,434	303,476	64,291	(NA)	247,653	458,102	292,644	750,746	(NA)	(NA)	(NA)
	1950.....	(NA)	(NA)	(NA)	52,094	189,707	44,219	(NA)	149,866	280,045	170,333	450,378	(NA)	(NA)	(NA)
	1949.....	(NA)	(NA)	(NA)	48,451	159,128	41,688	(NA)	123,446	227,016	138,844	365,860	(NA)	(NA)	(NA)
	1947.....	177	203	(NA)	62,335	186,661	54,207	†107,755	151,036	262,935	140,240	403,175	(NA)	89	83
	1939.....	(NA)	164	(NA)	35,567	55,415	30,088	(NA)	41,942	90,234	45,232	135,466	(NA)	(NA)	(NA)
	1937 <sup>10</sup> .....	(NA)	145	(NA)	(NA)	(NA)	41,299	(NA)	62,351	120,432	63,796	184,228	(NA)	(NA)	(NA)
	1929.....	(NA)	168	(NA)	(NA)	(NA)	39,697	(NA)	66,459	142,287	63,063	205,350	(NA)	(NA)	(NA)
3312 and 3323	Blast furnaces, steel mills and steel foundries: <sup>10</sup>														
	1958.....	(NA)	(NA)	(NA)	560,525	3,438,200	457,350	840,331	2,602,737	6,446,097	(11)	(11)	969,328	(NA)	(NA)
	1957.....	(NA)	(NA)	(NA)	684,278	4,003,083	570,114	1,104,445	3,160,198	7,775,474	(11)	(11)	1,459,644	(NA)	(NA)
	1956.....	(NA)	(NA)	(NA)	714,911	3,840,603	605,839	1,167,013	3,095,422	7,729,715	(11)	(11)	1,129,794	(NA)	(NA)
	1955.....	(NA)	(NA)	(NA)	681,804	3,557,455	578,300	1,162,596	2,881,419	7,213,905	(11)	(11)	592,555	(NA)	(NA)
	1954.....	(NA)	(NA)	(NA)	608,923	2,823,575	516,478	968,741	2,238,876	5,361,095	(11)	(11)	596,956	(NA)	(NA)
	1947.....	(NA)	(NA)	(NA)	631,250	1,990,818	553,916	(NA)	1,667,357	3,107,530	(11)	(11)	(NA)	(NA)	(NA)
	1939.....	(NA)	(NA)	(NA)	495,695	804,544	440,222	(NA)	672,459	1,410,626	(11)	(11)	(NA)	(NA)	(NA)
	1937.....	(NA)	(NA)	(NA)	(NA)	(NA)	523,020	(NA)	850,880	1,708,791	(11)	(11)	(NA)	(NA)	(NA)
	1935.....	(NA)	(NA)	(NA)	424,574	561,393	391,502	(NA)	480,160	951,827	(11)	(11)	(NA)	(NA)	(NA)
	1933.....	(NA)	(NA)	(NA)	327,907	336,550	302,011	(NA)	285,894	523,984	(11)	(11)	(NA)	(NA)	(NA)
	1931.....	(NA)	(NA)	(NA)	(NA)	(NA)	292,589	(NA)	379,780	686,914	(11)	(11)	(NA)	(NA)	(NA)
	1929.....	(NA)	(NA)	(NA)	482,390	882,094	440,086	(NA)	764,363	1,757,593	(11)	(11)	(NA)	(NA)	(NA)
	1927.....	(NA)	(NA)	(NA)	451,654	791,437	410,352	(NA)	679,701	1,314,818	(11)	(11)	(NA)	(NA)	(NA)
	1925.....	(NA)	(NA)	(NA)	464,552	801,794	423,105	(NA)	697,059	1,382,859	(11)	(11)	(NA)	(NA)	(NA)
	1923.....	(NA)	(NA)	(NA)	501,573	865,023	453,277	(NA)	744,868	1,452,803	(11)	(11)	(NA)	(NA)	(NA)

See footnotes at end of table.



# IRON AND STEEL FOUNDRIES

33B-5

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ial- iza- tion <sup>6</sup> ratio (per- cent)	Cov- er- age <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
	Blast furnaces, steel mills, etc.—Con.														
	1921.....	(NA)	(NA)	(NA)	304,585	486,571	270,283	(NA)	378,190	587,777	(11)	(11)	(NA)	(NA)	(NA)
	1919.....	(NA)	(NA)	(NA)	503,408	877,839	447,703	(NA)	756,382	1,420,937	(11)	(11)	(NA)	(NA)	(NA)
	1914.....	(NA)	(NA)	(NA)	330,716	271,499	299,179	(NA)	225,212	411,050	(11)	(11)	(NA)	(NA)	(NA)
	1909.....	(NA)	(NA)	(NA)	334,853	238,049	307,778	(NA)	203,262	430,685	(11)	(11)	(NA)	(NA)	(NA)
	1904.....	(NA)	(NA)	(NA)	279,568	172,728	261,621	(NA)	150,731	307,486	(11)	(11)	(NA)	(NA)	(NA)
	1899.....	(NA)	(NA)	(NA)	249,615	140,441	239,489	(NA)	127,906	297,489	(11)	(11)	(NA)	(NA)	(NA)

NA Not available. <sup>2</sup>Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales for finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3321	846,271
3322	135,175
3323	357,824

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954
3321	601,890	572,676
3322	86,258	77,178
3323	199,157	176,893

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)	
	1958	1954
3321	1,412,339	1,418,947
3322	213,852	212,354
3323	590,803	534,718

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>No comparable figures are available for earlier years.

<sup>10</sup>Prior to 1939 "Steelworks and rolling mills" and "Steel foundries" constituted a single industry. Separate figures for these two industries were obtained for 1937 and 1929 from special tabulation of the returns of those years. The separate industry figures for 1958-1954, 1939, 1937, and 1929 have been combined in order that statistics may be shown for other years. Data for "Blast furnaces and steel mills" for 1958 are shown in Chapter 33A, "Blast furnaces, steel works and rolling and finishing mills."

<sup>11</sup>Cost of materials and value of shipments for blast furnaces and steel mills are not shown since they contain extensive duplication. See Introduction, "Duplication in cost of materials and value of products."

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3321	Gray iron foundries, total.....	1,310	848	112,670	531,152	96,414	178,006	418,935	810,758	1,434,701	32,559	133,914	846,271	173,813
	New England.....	102	62	4,740	20,031	4,102	7,423	15,970	28,237	42,869	783	6,282	36,520	9,056
	Massachusetts...	56	30	2,740	12,020	2,411	4,366	9,849	18,142	27,398	524	3,492	23,157	4,435
	Rhode Island....	8	6	342	1,118	270	511	891	1,388	2,081	(2)	352	1,648	424
	Connecticut.....	22	17	1,272	5,519	1,094	1,954	4,140	6,928	10,684	(2)	1,622	8,297	2,927
	Middle Atlantic...	247	164	17,965	82,054	15,548	27,447	65,052	117,001	213,582	8,380	21,634	131,443	29,791
	New York.....	67	40	3,897	17,087	3,395	6,230	13,792	22,627	37,646	596	5,212	30,334	8,109
	New Jersey.....	43	34	51,30	24,799	4,372	7,985	19,449	40,665	68,439	3,508	5,841	41,711	7,192
	Pennsylvania....	137	90	8,938	40,168	7,781	13,232	31,811	53,709	107,497	4,276	10,580	59,398	14,490
	East North Central	453	338	53,098	271,442	44,679	82,938	211,967	401,099	705,686	13,104	67,250	444,482	89,413
	Ohio.....	132	102	16,201	81,954	13,636	24,595	62,984	134,681	239,316	4,887	20,348	141,118	21,131
	Indiana.....	67	49	6,636	32,414	5,719	10,785	25,805	45,529	76,718	1,787	7,124	38,991	8,889
	Illinois.....	93	69	6,350	28,913	5,230	9,265	21,632	39,732	79,242	1,109	7,750	44,981	11,355
	Michigan.....	101	79	17,991	100,639	15,495	29,729	81,919	145,475	253,043	4,188	25,686	184,786	40,146
	Wisconsin.....	60	39	5,920	27,522	4,599	8,564	19,627	35,682	57,367	1,133	6,341	34,604	7,892
	West North Central	107	62	5,283	22,961	4,575	8,445	18,298	34,980	55,055	(D)	5,575	30,453	8,924
	Minnesota.....	29	16	915	4,111	763	1,394	3,013	7,177	10,763	(2)	986	6,263	2,241
	Iowa.....	27	15	1,189	5,075	1,053	1,996	4,246	6,757	11,103	(2)	1,270	6,360	1,965
	Missouri.....	27	19	2,370	10,306	2,080	3,688	8,423	14,605	24,239	(2)	2,710	14,312	3,409
	Kansas.....	17	10	607	2,501	535	1,035	1,978	4,572	6,482	90	474	2,857	984
	South Atlantic....	113	56	6,426	27,567	5,880	11,485	20,715	45,181	79,635	(D)	5,780	31,384	6,991
	Maryland.....	12	10	771	3,135	667	1,296	2,423	5,162	8,497	(2)	(3)	(3)	(3)
	Virginia.....	27	14	2,863	12,149	2,459	4,986	9,065	18,764	36,352	561	2,618	14,575	2,848
	North Carolina..	27	10	1,315	4,811	1,165	2,222	4,087	7,293	13,550	(2)	(3)	(3)	(3)
	Georgia.....	17	6	512	1,575	452	798	1,283	1,826	3,100	(2)	232	843	587
	Florida.....	10	4	352	1,321	299	609	995	1,983	3,122	(2)	(3)	(3)	(3)
	East South Central	86	62	13,034	59,340	12,367	22,678	49,297	99,273	196,016	4,096	16,208	98,279	17,745
	West South Central	60	32	4,170	15,125	3,658	6,990	11,908	28,754	47,043	784	3,665	22,542	2,602
	Texas.....	40	23	3,625	13,157	3,189	6,144	10,370	25,687	42,532	638	3,113	19,760	1,876
	Mountain.....	24	15	1,251	6,361	1,073	2,072	4,976	13,877	24,550	(2)	1,653	11,966	(D)
	Pacific.....	118	57	5,303	26,271	4,532	8,528	20,752	42,356	70,265	3,244	5,863	39,198	7,675
	Washington.....	18	5	386	1,871	346	643	1,559	2,814	4,189	(2)	487	3,011	824
	Oregon.....	14	4	438	2,223	382	719	1,854	4,119	6,189	(2)	503	3,115	675
	California.....	86	48	4,479	22,177	3,804	7,166	17,339	35,423	59,887	2,848	4,872	33,070	6,176
3322	Malleable iron foundries, total...	82	74	20,230	100,579	16,694	31,366	77,148	127,592	214,537	4,438	23,378	135,175	29,862
	New England.....	9	7	881	3,710	722	1,224	2,558	5,056	7,500	(2)	862	4,532	1,738
	Connecticut.....	4	3	482	2,060	404	683	1,482	2,834	4,054	(2)	(3)	(3)	(3)
	Middle Atlantic...	21	17	3,133	14,512	2,631	4,786	11,288	19,363	29,140	(2)	3,432	17,599	5,087
	Pennsylvania....	11	10	1,958	9,275	1,635	2,977	7,176	12,637	19,001	(2)	1,475	8,201	2,463
	East North Central	43	42	14,772	75,882	12,187	23,252	58,706	94,392	164,040	3,741	17,645	105,192	21,262
	Ohio.....	10	10	3,194	16,033	2,737	5,355	13,097	19,835	31,443	957	4,084	22,115	5,931
	Indiana.....	6	6	1,393	5,689	1,113	2,019	4,313	5,907	10,634	(2)	2,196	10,344	2,899
	Illinois.....	12	11	4,663	25,350	3,875	7,384	19,797	31,300	54,858	1,069	5,424	35,799	4,881
	Michigan.....	7	7	4,110	21,907	3,293	6,306	16,116	28,005	53,056	1,317	4,227	27,497	4,812
	Wisconsin.....	8	8	1,412	6,903	1,169	2,188	5,383	9,345	14,049	(2)	1,712	9,435	2,739
	West North Central	4	3	427	1,859	345	676	1,428	2,490	3,766	(D)	466	2,576	581
	All other divisions.....	5	5	1,017	4,616	809	1,428	3,168	6,291	10,091	(D)	972	5,275	1,194
3323	Steel foundries, total.....	256	216	49,133	254,338	40,134	74,390	186,778	383,870	596,276	19,272	55,073	357,824	62,335
	New England.....	12	9	1,452	7,672	1,145	2,309	5,640	10,417	16,047	(2)	989	6,194	883
	Connecticut.....	5	3	344	1,586	285	539	1,187	2,755	3,794	(2)	(3)	(3)	(3)

See footnotes at end of table.



## IRON AND STEEL FOUNDRIES

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Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Steel foundries, etc.—Continued													
	Middle Atlantic...	59	52	14,238	78,227	11,457	21,165	56,126	112,007	176,779	6,518	18,436	120,412	23,196
	Pennsylvania....	37	35	10,854	58,283	8,898	15,985	42,657	83,025	129,296	4,084	13,877	88,117	17,800
	East North Central	84	74	20,985	109,307	17,171	30,975	80,237	170,002	259,639	6,638	23,137	155,214	27,938
	Ohio.....	27	24	6,242	32,797	5,040	9,159	22,847	48,509	74,893	3,165	6,648	41,788	9,539
	Indiana.....	6	5	3,574	20,253	3,157	5,986	16,992	36,783	53,582	( <sup>2</sup> )	3,723	25,969	3,491
	Illinois.....	20	17	5,344	25,721	4,274	7,101	18,213	39,207	60,409	1,799	6,930	45,072	9,637
	Michigan.....	15	13	2,222	10,898	1,814	3,326	8,163	14,946	25,187	( <sup>2</sup> )	2,471	17,813	2,912
	Wisconsin.....	16	15	3,603	19,638	2,886	5,402	14,022	30,557	45,568	938	3,364	24,570	2,359
	West North Central	16	13	3,450	15,993	2,805	5,228	12,396	26,001	39,234	1,654	3,138	18,367	3,243
	East South Central	5	4	866	3,961	747	1,431	3,009	5,065	9,233	482	...	...	...
	Mountain.....	4	3	434	1,820	360	641	1,363	3,722	6,509	16	...	...	...
	All other divisions.....	76	61	7,708	37,358	6,449	12,641	28,007	56,655	88,835	3,727	9,371	57,634	7,075
	Georgia.....	4	3	197	684	171	357	553	694	1,295	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Washington.....	11	7	488	2,770	411	792	2,028	3,749	5,799	( <sup>2</sup> )	479	2,996	255
	Oregon.....	6	6	1,058	5,483	856	1,701	4,093	9,463	15,701	( <sup>2</sup> )	799	6,447	731

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3321, Gray iron foundries: New England—Maine, 6 (20-99); New Hampshire, 6 (100-249); Vermont, 4 (100-249); West North Central—North Dakota, 2 (1-19); South Dakota, 1 (1-19); Nebraska, 4 (100-249); South Atlantic—Delaware, 2 (250-499); West Virginia, 10 (250-499); South Carolina, 8 (250-499); East South Central—Kentucky, 7 (100-249); Tennessee, 29 (1,000-2,499); Alabama, 46 (5,000 and over); Mississippi, 4 (20-99); West South Central—Arkansas, 4 (20-99); Louisiana, 7 (20-99); Oklahoma, 9 (250-499); Mountain—Montana, 2 (100-249); Idaho, 2 (20-99); Colorado, 10 (500-999); Arizona, 2 (20-99); Utah, 8 (250-499).

SIC 3322, Malleable iron foundries: New England—New Hampshire, 1 (20-99); Massachusetts, 2 (100-249); Rhode Island, 2 (20-99); Middle Atlantic—New York, 9 (1,000-2,499); New Jersey, 1 (20-99); West North Central—Minnesota, 1 (100-249); Iowa, 2 (100-249); Missouri, 1 (100-249); South Atlantic—Delaware, 1 (250-499); West Virginia, 1 (100-249); West South Central—Texas, 1 (250-499); Pacific—California, 2 (100-249).

SIC 3323, Steel foundries: New England—New Hampshire, 1 (100-249); Massachusetts, 6 (500-999); Middle Atlantic—New York, 11 (1,000-2,499); New Jersey, 11 (1,000-2,499); West North Central—Minnesota, 1 (100-249); Iowa, 3 (500-999); Missouri, 10 (1,000-2,499); Nebraska, 1 (100-249); Kansas, 1 (500-999); South Atlantic—Delaware, 2 (250-499); West Virginia, 1 (100-249); Florida, 1 (100-249); East South Central—Tennessee, 2 (500-999); Alabama, 3 (250-499); West South Central—Arkansas, 1 (100-249); Louisiana, 4 (500-999); Oklahoma, 3 (250-499); Texas, 9 (1,000-2,499); Mountain—Idaho, 1 (1-19); Colorado, 2 (100-249); Arizona, 1 (100-249); Pacific—California, 34 (2,500-4,999).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

Item	Gray iron foundries (SIC 3321)	Malleable iron foundries (SIC 3322)	Steel foundries (SIC 3323)
Primary product specialization ratio <sup>1</sup> .....	95	86	86
Coverage ratio <sup>2</sup> .....	87	90	86
Number of establishments, total.....	1,310	82	256
With 1-19 employees.....	462	8	40
With 20-99 employees.....	590	17	73
With 100 employees or more.....	258	57	143
Proprietors and working partners.....Number..	518	2	38
All employees:			
Number (average for the year).....	112,670	20,230	49,133
Payroll.....\$1,000..	531,152	100,579	254,338
Production workers:			
Number (average for the year).....	96,414	16,694	40,134
March.....	99,369	16,486	43,477
May.....	94,463	15,272	39,152
August.....	90,306	15,972	38,823
November.....	101,518	19,046	39,084
Man-hours.....1,000..	178,006	31,366	74,390
January-March.....do....	45,073	7,903	21,041
April-June.....do....	42,500	6,884	18,101
July-September.....do....	42,253	7,309	16,270
October-December.....do....	48,180	9,270	18,978
Wages.....\$1,000..	418,935	77,148	186,778
Cost of materials, etc., total.....do....	622,696	86,790	203,683
Materials, parts, containers, and supplies consumed.....do....	539,685	71,371	164,007
Cost of resales.....do....	20,806	532	4,526
Fuels consumed.....do....	42,246	9,955	11,232
Electricity purchased.....do....	15,984	3,991	16,698
Contract work.....do....	3,975	941	7,220
Value of shipments (including resales), total.....do....	1,434,701	214,537	596,276
Value of resales.....do....	22,362	685	5,473
Value added by manufacture, adjusted.....do....	810,758	127,592	383,870
Manufacturers' inventories:			
Beginning of year, total.....do....	170,030	25,524	106,800
Finished products.....do....	61,742	6,349	14,285
Work-in-process.....do....	20,402	7,518	46,939
Materials, supplies, fuel, etc.....do....	87,886	11,657	45,576
End of year, total.....do....	159,823	24,912	92,733
Finished products.....do....	61,901	5,946	13,055
Work-in-process.....do....	18,996	7,766	39,446
Materials, supplies, fuel, etc.....do....	78,926	11,200	40,232
Expenditures for plant and equipment, total.....do....	35,290	4,777	21,050
New, total.....do....	32,559	4,438	19,272
New structures and additions to plant.....do....	7,374	585	5,994
New machinery and equipment.....do....	25,185	3,853	13,278
Used plant and equipment.....do....	2,731	339	1,778

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



# IRON AND STEEL FOUNDRIES

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Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3321	Gray iron foundries:											
	Number of establishments.....	1,310	139	124	199	347	243	176	51	18	10	3
	All employees:											
	Number.....	112,670	310	866	2,886	11,577	16,958	27,272	17,567	11,917	23,317	(D)
	Payroll.....\$1,000..	531,152	1,016	2,969	10,800	46,398	73,251	122,601	86,294	56,861	130,962	(D)
	Value added, adjusted..do....	810,758	2,268	4,474	15,041	66,515	110,392	182,957	138,894	102,461	187,756	(D)
	Value of shipments.....do....	1,434,701	3,720	7,302	25,124	103,261	172,755	310,257	293,362	183,799	335,121	(D)
	Capital expend., new...do....	32,559	(1)	(1)	2,697	1,806	3,265	5,494	6,263	4,440	8,068	(D)
3322	Malleable iron foundries:											
	Number of establishments.....	82	5	...	3	1	16	29	20	...	3	...
	All employees:											
	Number.....	20,230	69	...	(D)	(D)	1,229	4,948	6,385	7,599	(D)	...
	Payroll.....\$1,000..	100,579	185	...	(D)	(D)	5,553	23,119	29,409	42,313	(D)	...
	Value added, adjusted..do....	127,592	317	...	(D)	(D)	7,869	30,476	36,957	51,973	(D)	...
	Value of shipments.....do....	214,537	558	...	(D)	(D)	11,753	44,452	59,576	98,198	(D)	...
	Capital expend., new...do....	4,438	(1)	...	(D)	(D)	506	(1)	802	2,663	(D)	...
3323	Steel foundries:											
	Number of establishments.....	256	17	9	14	42	31	79	42	20	2	...
	All employees:											
	Number.....	49,133	35	60	207	1,410	2,248	13,166	14,995	17,012	(D)	...
	Payroll.....\$1,000..	254,338	123	283	898	7,293	11,562	64,789	75,491	93,899	(D)	...
	Value added, adjusted..do....	383,870	273	306	1,494	10,748	16,377	97,832	110,360	146,480	(D)	...
	Value of shipments.....do....	596,276	505	595	2,386	17,417	25,054	153,936	168,596	227,787	(D)	...
	Capital expend., new...do....	19,272	(1)	(1)	(1)	(1)	1,128	5,170	4,773	7,743	(D)	...

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
						Col. B Col. B+C (percent)				Col. G Col. F (percent)
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	(E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	(I)
3321	Gray iron foundries.....1958..	1,434,701	1,334,531	68,261	31,909	95	1,527,888	1,334,531	193,357	87
	.....1954..	1,464,813	1,323,599	84,116	57,098	94	1,513,457	1,323,599	189,858	87
3322	Malleable iron foundries.....1958..	214,537	183,622	29,897	1,018	86	203,310	183,622	19,688	90
	.....1954..	213,321	181,858	30,193	1,270	86	204,916	181,858	23,058	86
3323	Steel foundries.....1958..	596,276	502,846	81,851	11,579	86	587,931	502,846	85,085	86
	.....1954..	539,784	465,583	62,892	11,309	88	535,054	465,583	69,471	87

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. Each column shows for the industry named in the column heading the total value of shipments divided among (a) Iron and steel castings, (b) other products, and (c) miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry named at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Gray iron foundries (SIC 3321)	Malleable iron foundries (SIC 3322)	Steel foundries (SIC 3323)	Blast furnaces and steel mills (SIC 3312)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,434,701	214,537	596,276	xxx	xxx	xxx
332--	Iron and steel castings.....	1,348,964	201,522	523,928	94,659	150,056	<sup>1</sup> 2,319,129
33211	Molds for heavy steel ingots.....	90,007	...	...	55,188	<sup>2</sup> 2,510	147,705
33212	Cast iron pressure pipe.....	194,505	1,048	...	...	593	196,146
33213	Cast iron soil pipe and fittings.....	109,461	( <sup>2</sup> )	...	...	<sup>3</sup> 10,265	119,768
33214	All other gray iron castings.....	887,825	15,117	16,382	12,586	<sup>4</sup> 63,209	995,119
33210	Gray iron castings, nsk.....	52,733	...	( <sup>2</sup> )	...	16,385	69,150
33220	Malleable iron castings.....	3,209	183,622	4,668	...	<sup>5</sup> 11,811	203,310
33230	Steel castings.....	11,224	1,693	502,846	26,885	<sup>6</sup> 45,283	587,931
	Other products.....	53,828	11,997	60,769	xxx	xxx	xxx
33610	Aluminum castings.....	5,579	1,680	1,399	xxx	xxx	xxx
33620	Brass, bronze, copper, copper-base alloy castings.....	7,027	1,322	2,372	xxx	xxx	xxx
35650	Industrial patterns.....	7,964	1,812	5,914	xxx	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.....	2,432	...	3,285	xxx	xxx	xxx
	All other secondary products.....	<sup>7</sup> 30,826	<sup>8</sup> 7,183	<sup>9</sup> 47,799	xxx	xxx	xxx
	Miscellaneous receipts.....	31,909	1,018	11,579	xxx	xxx	xxx
	Contract work.....	5,927	51	1,724	xxx	xxx	xxx
	Sale of products bought and resold without further manufacture.....	22,362	685	5,473	xxx	xxx	xxx
	All other receipts.....	3,620	282	4,382	xxx	xxx	xxx

<sup>1</sup>Revised.

<sup>2</sup>Includes shipments which totaled \$2 million or more for Industry 3432, Plumbing Fixture Fittings and Trim, but are withheld to avoid disclosing individual company figures.

<sup>3</sup>Less than \$100 thousand.

<sup>4</sup>Includes shipments which totaled \$2 million or more for Industry 3443, Boiler Shop Products, but are withheld to avoid disclosing individual company figures.

<sup>5</sup>Includes \$2 million shipped by Industry 3362, Brass, Bronze and Copper Castings; \$21 million shipped by Industry 3552, Textile Machinery; and \$8 million shipped by Industry 3717, Motor Vehicles and Parts.

<sup>6</sup>Includes \$5 million shipped by Industry 3522, Farm Machinery and Equipment. In addition, Industry 3559, Special Industrial Machinery, NEC, had shipments which totaled \$2 million or more, but are withheld to avoid disclosing individual company figures.

<sup>7</sup>Includes \$3 million shipped by Industry 3361, Aluminum Castings; \$2 million shipped by Industry 3494, Valves and Pipe Fittings; \$5 million shipped by Industry 3531, Construction Machinery; \$4 million shipped by Industry 3548, Metalworking Machinery, NEC.; and \$2 million shipped by Industry 3717, Motor Vehicles and Parts. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 2499, Wood Products, NEC.; Industry 3391, Iron and Steel Forgings; Industry 3443, Boiler Shop Products; Industry 3566, Power Transmission Equipment; and Industry 3742, Railroad and Street Cars.

<sup>8</sup>Includes product class 34990, Fabricated metal products, nec., which totaled \$2 million or more but is withheld to avoid disclosing individual company figures.

<sup>9</sup>Includes product class 35690, General industrial machinery, nec, which totaled \$2 million or more, but is withheld to avoid disclosing individual company figures.

<sup>10</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 34941, Valves and piping systems; 35481, Rolling machinery and equipment; 37413, Parts for locomotives, for sale separately, and rebuilt locomotives; and 37423, Street cars, parts and accessories for railroad cars and street cars, and rebuilt passenger and freight train cars.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954

Product code	Product	1958				1954			
		Total shipments including inter-plant transfers		Shipments to other companies		Transfers to other plants of the same company		Total shipments including inter-plant transfers	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3321---	Gray iron castings, total <sup>1</sup> .....	xxx	1,527,888	xxx	1,143,814	xxx	384,074	8,364,700	1,513,457
3321111	Molds for heavy steel ingots.....	1,509,368	147,705	959,058	97,295	550,350	50,410	1,329,598	110,018
33212--	Cast iron pressure pipe and fittings.....	1,327,165	196,146	21,327,165	219,614	(2)	(2)	1,433,529	170,290
3321211	Under 14" (inside diameter).....	1,105,508	165,703	21,105,508	216,703	(2)	(2)	1,145,971	138,016
3321211	14"-24" inclusive (inside diameter).....	192,980	26,364	21,192,980	26,364	(2)	(2)	220,684	25,303
3321251	Over 24" (inside diameter).....	28,677	4,079	28,677	4,079	(2)	(2)	66,874	6,971
3321311	Cast iron soil pipe and fittings.....	757,293	119,768	27,577,293	211,768	(2)	(2)	758,707	108,346
33214--	All other gray-iron castings.....	3,887,194	995,119	2,504,642	661,455	1,382,552	333,664	4,842,866	1,124,803
3321421	Chilled iron railroad car wheels.....	224,359	15,757	224,359	15,757	(2)	(2)	309,725	15,821
3321431	Rolls for rolling mills.....	67,043	28,130	267,043	28,130	(2)	(2)	75,909	27,549
3321498	Miscellaneous gray-iron castings.....	3,595,792	941,232	2,213,240	607,568	1,382,552	333,664	4,463,232	1,081,433
3321000	Gray iron castings, nsk.....	xxx	69,150	xxx	269,150	xxx	(2)	...	...
3322---	Malleable iron castings, total <sup>1</sup> .....	xxx	203,310	xxx	146,663	191,897	56,647	687,815	204,916
3322021	Standard.....	464,032	164,652	319,022	120,648	145,010	44,004	...	...
3322031	Pearlitic.....	117,058	56,190	70,168	23,547	46,887	12,643	687,815	204,916
3322000	Malleable-iron castings, nsk.....	xxx	2,468	xxx	2,468	...	...	...	...
3323---	Steel castings, total.....	xxx	587,351	xxx	547,151	56,900	40,780	995,384	535,054
3323012	Carbon steel castings:								
3323012	Cast steel railroad car wheels.....	206,976	66,120	203,309	64,491	3,667	1,629	312,293	341,986
3323013	Railway specialties (except cast railroad car wheels).....	10,941	5,903	10,634	5,749	307	154	9,476	2,748
3323015	Rolls for rolling mills.....	401,482	294,311	372,243	216,887	29,239	17,424	327,542	244,139
3323019	Other carbon steel castings.....	49,127	36,079	47,018	34,886	2,109	1,193	(NA)	(NA)
3323021	High manganese steel castings.....	31,332	66,783	27,242	59,784	4,090	6,999	31,209	64,399
3323031	High alloy steel castings <sup>4</sup> .....								
3323051	Alloy (except high alloy) steel castings:								
3323051	Railway specialties.....	17,596	8,653	16,983	8,232	613	421	15,891	6,566
3323055	Rolls for rolling mills.....	49,853	26,853	43,872	23,670	5,981	3,163	41,052	16,546
3323059	Other alloy steel castings.....	147,555	103,666	136,758	94,250	10,817	9,416	246,921	158,670
3323061	Investment steel castings.....	2,887	30,754	2,810	30,373	77	381	(NA)	(NA)
3323000	Steel castings, nsk.....	xxx	8,829	xxx	8,829	...	...	...	...

NA Not available.

<sup>1</sup>Differs from the figures published in Current Industrial Reports (previously identified as Facts for Industry) Series M53-1, "Iron and Steel Castings," in that no figures are included above for castings produced by captive foundry departments of plants classified in other industries. As shown in the Current Industrial Reports, captive production ("for own use"), including both interplant transfers and castings produced and consumed by the same plant for 1958, totaled 4,508 thousand tons of gray iron castings, 277 thousand tons of malleable iron castings, 264 thousand tons of steel castings. Of this total, only the following tonnages transferred to other plants are included above: Gray iron castings, 1,943 thousand tons; malleable iron castings, 192 thousand tons; and steel castings, 57 thousand tons. The differences between tonnages shown above for "shipments to other companies" and the "for sale" figures in Series M53-1 are due to differences in classification in the Census and monthly survey with regard to such products as machinery parts, etc., fiscal year reports in the Census, as well as certain revision of the monthly data reported in the Census.

<sup>2</sup>Figures for transfers to other plants of the same company are included with "shipments to other companies."

<sup>3</sup>Railroad car wheels were not reported separately in the 1954 Census. A review of the data indicates that most car wheels were included with other carbon steel castings.

<sup>4</sup>Heat and/or corrosion-resistant steel castings containing 8 percent or more of chromium or nickel, or both, with or without molybdenum or other elements.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

[illegible]

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 33121, Ohio, West Virginia, Kentucky, Alabama, Colorado, and California; 33122, Massachusetts, New Jersey, Ohio, Illinois, Virginia, Tennessee, Utah, and California; 33123, New York, New Jersey, Ohio, Missouri, Maryland, North Carolina, Florida, Tennessee, Texas, Colorado, and Oregon; 33214, Delaware, South Carolina, Kentucky, and Montana; 33220, Massachusetts, Rhode Island, New York, New Jersey, Minnesota, Iowa, Delaware, Texas, and California; 33230, Minnesota, Iowa, Nebraska, Kansas, Delaware, West Virginia, Florida, Tennessee, Arkansas, Oklahoma, Colorado, and Arizona.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



IRON AND STEEL FOUNDRIES

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Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	1958		1954					
		Quantity	Delivered cost	Quantity	Delivered cost				
		(Short tons)	(\$1,000)	(Short tons)	(\$1,000)				
		INDUSTRY 3321--GRAY IRON FOUNDRIES							
	Materials, containers and supplies, total.....	xxx	539,685	xxx		511,359			
331251	Pig iron.....	3,095,200	195,745	3,856,958		205,015			
	Non-ferrous metals and alloys (pig, ingot, shot, etc.):								
333421	Aluminum, unalloyed.....	522	255	4,156	1,911				
333423	Aluminum-base alloys.....	1,943	997						
333113	Copper, unalloyed.....	649	372	838	491				
333115	Copper-base alloys.....	4,270	2,652	5,053	3,058				
333511	Magnesium and magnesium-base alloys.....	2,836	1,846	1,334	834				
333311	Zinc and zinc-base alloys.....	135	51	(NA)	(NA)				
	Ferro-alloys:								
331311	Ferromanganese.....	7,256	2,065	7,272	1,853				
331318	Other ferroalloys.....	(NA)	11,750	(NA)	9,747				
	Scrap (purchased only):								
941011	Iron and steel.....	3,307,779	127,476	3,231,034	104,398				
941031	Aluminum and aluminum-base alloy.....	350	135	1,027	430				
941021	Copper and copper-base alloy.....	1,547	685	1,753	767				
970000	All other materials, components, parts, containers, and supplies.....	xxx	166,284	xxx	182,855				
973000	Materials, containers and supplies, nsk.....	xxx	129,372	xxx	xxx				
		1958	1954	1958	1954				
		Quantity (Short tons)	Delivered cost (\$1,000)	Quantity (Short tons)	Delivered cost (\$1,000)	Quantity (Short tons)	Delivered cost (\$1,000)		
		INDUSTRY 3322--MALLEABLE IRON FOUNDRIES				INDUSTRY 3323--STEEL FOUNDRIES			
	Materials, containers, and supplies, total.....	xxx	71,371	xxx	63,240	xxx	164,007	xxx	145,048
331251	Pig iron.....	178,977	12,022	284,776	16,837	83,126	5,575	121,534	7,096
	Nonferrous metals and alloys (ingot, pig, shot, etc.):								
333421	Aluminum, unalloyed.....	88	43	429	234	932	411	1,136	558
333423	Aluminum-base alloys.....	797	469			422	205		
333113	Copper, unalloyed.....	597	363	(NA)	(NA)	(NA)	30	265	168
333115	Copper-base alloys.....					494	347	236	154
	Ferro-alloys:								
331311	Ferro-manganese.....	2,295	485	2,665	643	17,857	4,650	19,761	4,416
331318	Other ferroalloys.....	(NA)	2,505	(NA)	1,764	(NA)	14,616	(NA)	10,321
941011	Iron and steel scrap (purchased only).....	445,250	17,638	467,417	14,160	864,120	34,538	820,786	27,375
970000	All other materials, components, parts, containers and supplies.....	xxx	36,679	xxx	29,602	xxx	99,037	xxx	94,960
973000	Materials, containers, and supplies, nsk.....	xxx	1,167	...	...	xxx	4,598	...	...

NA Not available.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, (b) total cost of materials reported for establishments which failed to report the costs of individual materials on "standard forms," and (c) discrepancies between total cost of materials and detailed materials on the reports for other establishments.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3321	GRAY IRON FOUNDRIES (entire industry).. Establishments with: 90% or more specialization..... 75-89% specialization.....	1,310 1,148 67	112,670 96,930 7,373	531,152 457,477 35,444	96,414 83,813 5,862	178,006 154,853 10,565	418,935 364,932 26,337	810,758 705,298 49,871	622,696 549,014 35,303	1,434,701 1,255,383 85,548	32,559 27,095 3,609
33211	Molds for heavy steel ingots (primary product class of estab.).. Establishments with: 90% or more specialization....	22 18	3,537 3,039	18,114 15,910	3,083 2,648	5,194 4,448	14,367 12,538	24,678 21,022	70,757 66,662	93,568 85,792	2,496 2,480
33212	Cast iron pressure pipe (primary product class of estab.)..... Establishments with: 90% or more specialization....	27 20	10,188 5,375	51,675 25,923	8,468 4,423	15,970 8,080	39,274 19,410	109,763 65,155	100,557 63,179	210,167 128,286	6,531 1,057
33213	Cast iron soil pipe and fittings (primary product class of estab.).. Establishments with: 90% or more specialization.... 75-89% specialization.....	45 32 7	12,063 6,517 4,337	48,236 25,165 17,547	11,111 6,015 4,016	20,709 10,788 7,782	42,109 22,146 15,411	71,064 33,321 28,816	60,153 29,755 25,101	129,362 62,171 53,102	1,908 815 844
33214	All other gray iron castings (primary product class of estab.).. Establishments with: 90% or more specialization.... 75-89% specialization.....	739 601 66	80,260 63,715 8,442	389,527 313,183 39,536	68,241 54,868 6,822	126,742 101,935 12,511	304,211 248,454 29,132	570,413 468,488 49,259	369,691 301,542 33,315	944,838 774,142 83,268	18,225 15,173 1,175
3322	MALLEABLE IRON FOUNDRIES (entire industry)..... Establishments with: 90% or more specialization..... 75-89% specialization.....	82 59 12	20,230 13,213 2,529	100,579 66,411 11,139	16,694 10,936 2,055	31,366 20,750 3,539	77,148 51,125 8,391	127,592 84,433 14,177	86,790 52,783 7,325	214,537 137,071 21,620	4,438 3,289 ( <sup>1</sup> )
3323	STEEL FOUNDRIES (entire industry)..... Establishments with: 90% or more specialization..... 75-89% specialization.....	256 191 31	49,133 34,293 5,580	254,338 173,802 28,503	40,134 27,816 4,683	74,390 51,044 8,655	186,778 127,359 21,265	383,870 253,249 44,429	203,683 136,973 24,096	596,276 398,573 68,560	19,272 11,671 2,003

<sup>1</sup>Less than \$500 thousand.



# IRON AND STEEL FOUNDRIES

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**Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958**

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY—3321 GRAY IRON FOUNDRIES							
Machine shop.....	236	66	111	59	5,234	144	1,079	4,011
Foundry pattern shop.....	304	217	69	18	2,281	451	574	1,256
	INDUSTRY—3322 MALLEABLE IRON FOUNDRIES							
Machine shop.....	20	6	7	7	530	16	64	450
Foundry pattern shop.....	50	22	27	1	334	55	(D)	(D)
	INDUSTRY—3323 STEEL FOUNDRIES							
Machine shop.....	73	18	27	28	3,002	41	264	2,697
Foundry pattern shop.....	124	42	67	15	1,269	103	567	599

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry		
	3321	3322	3323
Total number of establishments in the industry.....	1,310	82	256
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	852	59	197
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	75-80	80-85	80-85

D Withheld to avoid disclosing operations of individual companies.





# Smelting and Refining of Nonferrous Metals and Alloys

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3331--Primary Smelting and Refining of Copper
- 3332--Primary Smelting and Refining of Lead
- 3333--Primary Smelting and Refining of Zinc
- 3334--Primary Production of Aluminum
- 3339--Primary Smelting and Refining of Nonferrous Metals, N.E.C.
- 3341--Secondary Smelting, Refining, and Alloying of Nonferrous Metals and Alloys

Industries in this group produce primary and secondary nonferrous metals and alloys from ores and concentrates and from scrap. The five primary industries (3331-3339) are chiefly engaged in extracting metals from ores, concentrates, precipitates, etc. They include (1) establishments which perform smelting operations only and produce metals such as blister copper and lead base bullion, that are not yet of commercial grades; (2) establishments which refine the products of the smelters and produce commercially pure metal; and (3) those which produce refined metals from the ores and concentrates in a single continuous operation. These industries do not include milling or concentrating operations since these are generally located at mine sites and are considered as mineral operations rather than manufacturing activities. Such operations are covered in the 1958 Census of Mineral Industries (Major Group 10--Metal Mining). Also excluded are establishments which produce alumina from bauxite and those which process ores and concentrates primarily for the purpose of producing chemicals, such as zinc oxide. Such establishments are included in the chemical group of manufacturing industries. Primary smelters and refiners may also produce considerable quantities of such chemicals as sulfuric acid, zinc oxide, etc.

Inasmuch as many of the companies in the smelting and refining field operate their own mines and milling and concentrating plants, it has been difficult to establish a satisfactory value of the ore or concentrate transferred from the mine to the smelter. In an effort to achieve

uniformity and to conform to reporting by smelters purchasing ore from other companies, the instructions accompanying the 1958 and 1954 report forms specified that such transfers should be reported at an approximate commercial value. In practice, this instruction was not feasible in all cases. In some instances there does not exist a comparable commercial form of the ore or concentrate transferred and in others, to convert to an approximate commercial value would have been unrealistic in view of the actual operations of the various establishments of an integrated company.

Since Censuses of Manufactures and of Mineral Industries were being conducted at the same time for 1958 and 1954, it was possible to check the reasonableness of the values of ores and concentrates transferred from mine and mill to smelter as reported by integrated companies. In a number of instances, the value f.o.b. mine and mills reported on the minerals form exceeded the cost of this material shown as an input on the manufactures report, whereas the latter figure should exceed the mine value by approximately the transportation and handling costs. In such cases, the respondent was queried and more reasonable value and cost figures were obtained. These adjustments usually resulted in increased cost figures on the manufactures report, and consequently, reduced the computed "value added by manufacture."

In addition to the integration of mine and smelter, some companies operate both smelting and refining facilities while some are fully integrated from mine through refinery. The transfer of blister copper to refineries operated by the same company was often reported at other than commercial value for the reasons cited above. However, inasmuch as both the smelter and refinery are classified in the same industry, these estimated value figures do not cause a distortion of "value added" for the industry as a whole. However, the commodity data on shipments of smelter product and materials data on the consumption of these items are affected. For the copper industry separate data are shown below for smelters and for refineries. These data must also be interpreted in the light of these limitations.

While a few companies transfer their refined product to fabricating plants under their own ownership, the effect of transfer values on the total figures is much less in this area. Often,



while the refinery and fabricating plants may be under the same general financial control, the organizations are so distinct that the transfer of materials is made on the same basis as a commercial transaction.

For Industries 3331-3339, toll processing is a particularly important activity and a considerable portion of the metal produced is handled on this basis, i.e., is processed by the smelter or the refinery for the owner of the metal for a fee. The fee may be a money payment or may be a combination of a money payment and a provision that the processing plant keep some of the metal. For both the 1958 and 1954 Censuses of Manufactures no distinction was made in the production data between "produced on toll basis" and production from company-owned material. Also, no distinction was made in the shipments data between the plant's shipments of products produced from its own material and the shipments of metal retained as part of the fee for toll processing. However, separate data were reported for the metal returned to toll customers and for the fees received for toll processing.

Data on the tonnages of metals produced by plants engaged in primary smelting and refining of nonferrous metals are published annually by the Bureau of Mines of the U. S. Department of Interior, in its Mineral Yearbook. Minor variations exist between the data shown here and those published by the Bureau of Mines. In addition to minor differences occurring from the submittal of separate reports to different agencies, reasons for the variation are the use by the Bureau of the Census of gross weight as contrasted with metal content by the Bureau of Mines for some metals and adjustments made by the Bureau of Mines for the amount of metal estimated as produced from scrap instead of ores or concentrates.

In general, the same definitions were used by the Bureau of the Census in the collection of product statistics as are used by the Bureau of Mines. In particular, it might be noted that the tonnages of refined lead and copper, produced by plants making refined lead and copper directly from ores and concentrates, are included in the lead base bullion and blister copper figures to arrive at a balance between the blister copper and refined copper figures and base bullion and refined lead figures. These tonnages have been considered as blister copper and lead base bullion produced and consumed in the same plant.

The production and shipments data shown in table 6A represent total production from materials of both domestic and foreign sources. The production and shipment figures shown for primary smelters and refiners include the production from scrap as well as from primary sources such as ores, concentrates, etc. A measure of the extent of secondary production

by primary smelters and refiners is shown in table 7 which contains information on the quantity of scrap consumed. Also, a certain amount of duplication arises if the data shown in table 6A for unalloyed and alloyed metals are combined in that unalloyed metals are consumed by secondary smelters in producing metal alloys. This duplication can be measured by reference to the quantities of unalloyed metal consumed by secondary plants shown in table 7.

Data on the production of selected nonferrous metals by industry are presented in table 6A. These production data include quantities produced for sale, for interplant transfer, and for further consumption within the producing plant as well as toll production. However, the coverage ratios shown in table 5A are based on dollar value of shipments (including transfers to other plants of the company) but exclude the value of nonferrous metals produced and consumed within the same plant as well as shipments of metals produced for other companies on a toll basis.

### 3331--Primary Smelting and Refining of Copper

This industry comprises establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing or extruding copper are classified in Industry 3351. For a detailed list of products of Industry 3331, refer to table 6A, product codes 3331111 to 3331215.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Inasmuch as this industry includes both establishments smelting copper from ore, concentrates, etc., and establishments refining copper by electrolytic or other processes, the total cost of materials and the total value of shipments for this industry include extensive duplication resulting from the use of the products of the smelters as materials for the refiners. Thus, the value of blister copper, which represents an intermediate stage in the production of refined copper, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials. Therefore, figures on the total value of shipments and the total cost of materials are not shown for this industry.

This problem of duplication is largely eliminated by treating smelters and refiners separately and by presenting individual figures for each group. The following table shows separate general statistics--employment, value added, value of shipments, etc., for the smelters and for the refiners of copper. In order to have the



General Statistics for the United States for  
Primary Copper Smelters and Refiners: 1958 and 1954

Item	1958		1954	
	Smelters	Refiners	Smelters	Refiners
Number of establishments.....	17	13	15	13
All employees:				
Number.....	5,944	8,617	6,103	8,577
Payroll.....\$1,000	31,004	45,112	26,731	36,609
Production and related workers:				
Number.....	5,027	7,257	5,238	7,172
Man-hours.....1,000	10,029	14,447	10,555	14,405
Wages.....\$1,000	24,754	36,098	21,938	29,235
Value added by manufacture, adjusted.....\$1,000	68,386	<sup>r</sup> 89,736	<sup>1</sup> 64,249	<sup>1</sup> 99,415
Cost of materials, fuel, electricity, contract work, and resales.....\$1,000	318,240	<sup>r</sup> 347,398	<sup>2</sup> 325,692	<sup>2</sup> 376,077
Value of shipments.....\$1,000	381,744	<sup>r</sup> 445,581	<sup>3</sup> 389,941	<sup>3</sup> 475,502

<sup>1</sup>Represents unadjusted value added by manufacture.      <sup>r</sup>Revised.

<sup>2</sup>Excludes cost of products bought and resold.

<sup>3</sup>Excludes value of products bought and resold.

necessary data to prepare this table, where the smelting and refining operations at a single location are distinctly separate stages in the production of the metal, separate reports for smelting and refining departments were obtained. When separate smelting and refining stages are not necessary, such as in the case with copper produced by leaching and the production of Lake Superior copper, the establishments have been classified as refineries.

### 3332--Primary Smelting and Refining of Lead

This industry comprises establishments primarily engaged in smelting lead from the ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in Industry 3356. For a detailed list of products of Industry 3332, refer to table 6A, product codes 3332111 to 3332398.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

This industry includes both establishments smelting lead ores and concentrates and establishments refining lead and, accordingly, the total cost of materials and the total value of shipments for this industry include extensive duplication resulting from the use of the products of the smelter (lead-base bullion) as the material for the refiners. Thus, the value of the lead-base bullion, which represents an

intermediate stage in the production of refined lead, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials. Because of this, these figures are not shown for this industry.

### 3333--Primary Smelting and Refining of Zinc

This industry comprises establishments primarily engaged in smelting zinc from the ore, and in refining zinc, by any process. Establishments primarily engaged in rolling, drawing or extruding zinc are classified in Industry 3356. For a detailed list of products of Industry 3333, refer to table 6A, product codes 3333111 to 3333461.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Primary Zinc Industry in 1958 totaled \$209 million. This included shipments of refined zinc (primary products) valued at \$177 million, shipments of other products valued at \$19 million, and miscellaneous receipts (mainly receipts for toll work) of \$13 million.

This industry's shipments of refined zinc (primary products) in 1958 represented 90 percent (specialization ratio) of its total product shipments. The industry specialization ratio in 1954 was 87 percent. Other products shipped by this industry in 1958 consisted mainly of



sulfuric acid, \$6 million, and miscellaneous nonferrous metals, n.e.c., \$6 million.

Industry 3333 shipments of refined zinc (primary products) in 1958 represented 76 percent (coverage ratio) of these products valued at \$233 million shipped by all industries.

In 1958, establishments in Industries 3333 and 3341 accounted for 93 percent of the \$233 million shipments of refined zinc. Industry 3333 accounted for 76 percent of this total and Industry 3341 accounted for 17 percent.

#### 3334--Primary Production of Aluminum

This industry comprises establishments primarily engaged in producing aluminum from alumina, and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing or extruding aluminum are classified in Industry 3352. For a detailed list of products of Industry 3334, refer to table 6A, product codes 3334111 to 3334211.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Primary Aluminum Industry in 1958 totaled \$809 million. This included shipments of refined aluminum (primary products) valued at \$800 million, and miscellaneous receipts (mainly resales) of \$9 million.

This industry's shipments of refined aluminum (primary products) in 1958 represented 100 percent (specialization ratio) of its total product shipments. The industry specialization ratio in 1954 was 100 percent.

Industry 3334 shipments of refined aluminum (primary products) in 1958 represented 76 percent (coverage ratio) of these products valued at \$1,058 million shipped by all industries.

In 1958, establishments in Industries 3334, 3341, and 3352 accounted for 99 percent of the \$1,058 million shipments of refined aluminum. Industry 3334 accounted for 76 percent of this total, Industry 3341 accounted for 13 percent, and Industry 3352 accounted for 10 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following two product classes of Industry 3334, e.g., aluminum-base alloys, 51 percent; and unalloyed aluminum, 98 percent.

#### 3339--Primary Smelting and Refining of Nonferrous Metals, N.E.C.

This industry comprises establishments primarily engaged in smelting and refining nonferrous metals, n.e.c. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in

Industry 3356, and the production of bullion at the site of the mine is classified in the mining industries. For a detailed list of products of Industry 3339, refer to table 6A, product codes 3339511 to 3339794.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Primary Nonferrous Metals, N.E.C., Industry in 1958 totaled \$97 million. This included shipments of refined nonferrous metals, n.e.c. (primary products) valued at \$87 million, shipments of other products valued at \$8 million, and miscellaneous receipts (mainly receipts for toll work) of \$2 million.

This industry's shipments of refined nonferrous metals, n.e.c. (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments. The industry specialization ratio in 1954 was 90 percent. Other products shipped by this industry in 1958 consisted mainly of reagent and high purity grades of inorganic chemicals, \$3 million, and rolling and drawing of miscellaneous nonferrous metals, \$3 million.

Industry 3339 shipments of refined nonferrous metals, n.e.c. (primary products) in 1958 represented 24 percent (coverage ratio) of these products valued at \$363 million shipped by all industries. In 1954, the coverage ratio was 28 percent.

In 1958, establishments in Industries 3339 and 3341 accounted for 45 percent of the \$363 million shipments of refined nonferrous metals, n.e.c. Industry 3339 accounted for 24 percent of this total and Industry 3341 accounted for 21 percent. The low industry coverage ratio is due principally to the large shipments of precious metals by establishments in Industry 3331, Primary Copper and Industry 3332, Primary Lead.

#### 3341--Secondary Smelting, Refining, and Alloying of Nonferrous Metals and Alloys

This industry comprises establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross, but which are not engaged in further fabrication. This industry includes establishments engaged in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes, are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining are classified in trade industries. For a detailed list of products of Industry 3341, refer to table 6A, product codes 3341111 to 3341698.



The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Secondary Nonferrous Metals Industry in 1958 totaled \$724 million. This included shipments of refined nonferrous metals valued at \$563 million, shipments of other products valued at \$46 million, and miscellaneous receipts (mainly resales) of \$115 million.

This industry's shipments of refined nonferrous metals in 1958 represented 93 percent

(specialization ratio) of its total products shipments. Other products shipped by this industry in 1958 included refined unalloyed aluminum, \$11 million, and reagent and high purity grades of inorganic chemicals, \$6 million.

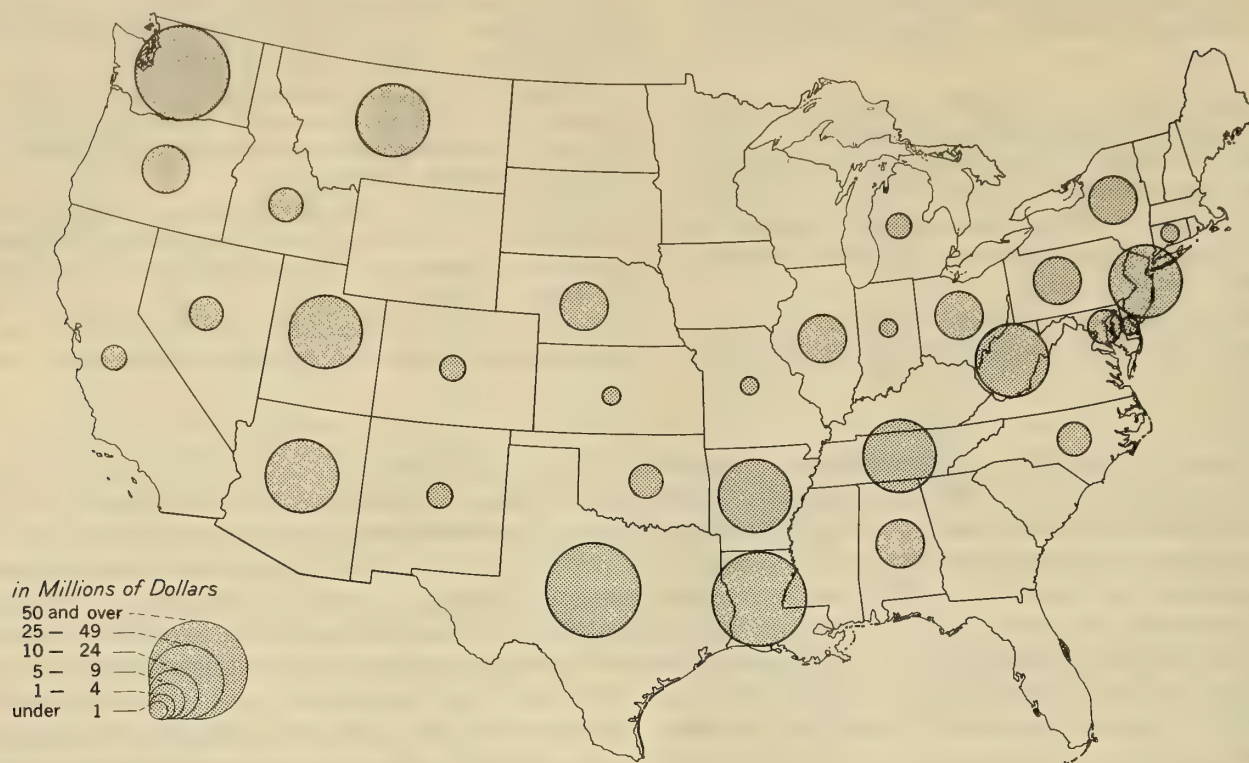
Industry 3341 shipments of refined nonferrous metals in 1958 represented 30 percent (coverage ratio) of these products valued at \$1,858 million shipped by all industries.

Each of the product classes of this industry is primary also to the comparable industry in Industry Group 333, Primary Nonferrous Metals. In 1958, establishments in Industry 3341 and in Industry Group 333 accounted for over 80 percent of the shipments of refined nonferrous metals.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## PRIMARY SMELTING AND REFINING OF NONFERROUS METALS: SIC 333

Value Added by Manufacture by State: 1958

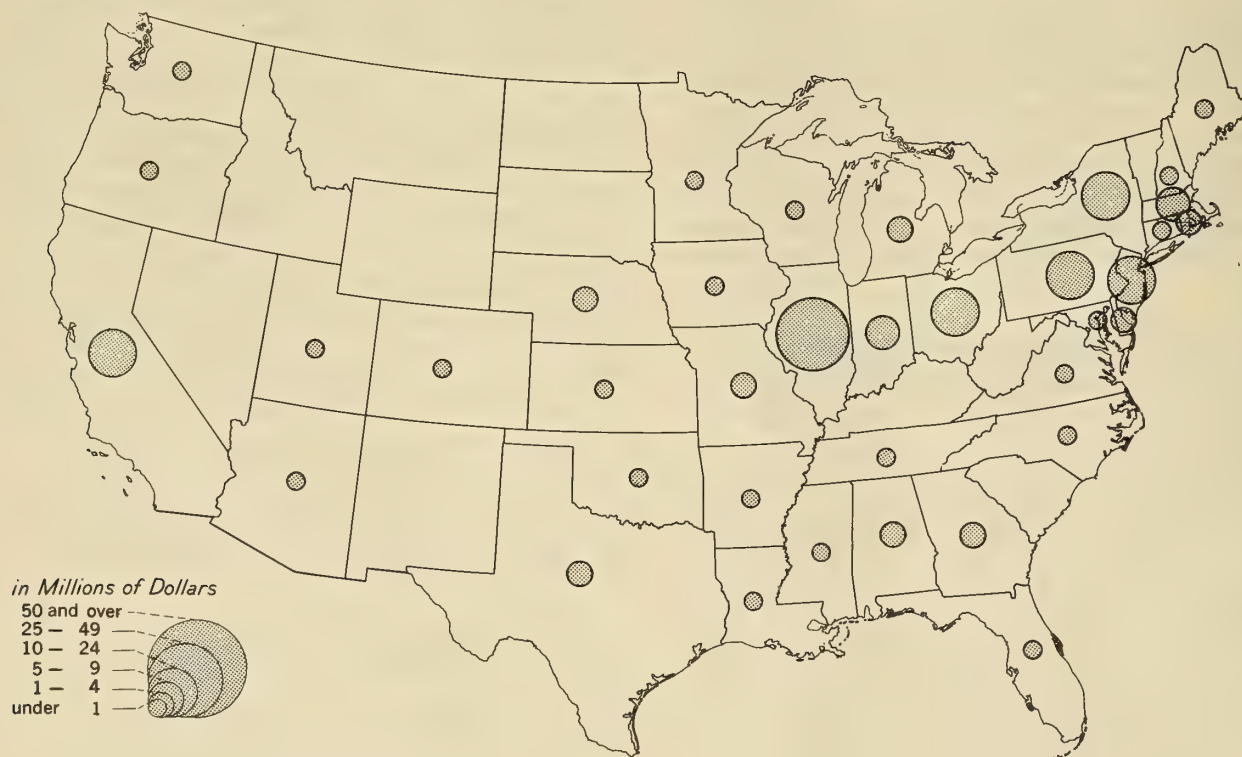


Includes Industries 3331, 3332, 3333, 3334 and 3339. See Table 2.

Bureau of the Census M-58-D333

## SECONDARY SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS: SIC 334

Value Added by Manufacture by State: 1958



Includes only Industry 3341. See Table 2.

Bureau of the Census M-58-D334



## SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS

33C-7

Table 1.—General Statistics for the United States, 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3331 (old SIC 3331)	Primary copper:														
	1958.....	11	30	29	14,561	76,116	12,284	24,476	60,852	158,122	(8)	(8)	15,157	(NA)	(NA)
	1957.....	r(NA)	r(NA)	r(NA)	15,050	79,314	12,980	26,635	64,926	184,813	r(8)	r(8)	11,729	r(NA)	r(NA)
	1956.....	r(NA)	r(NA)	r(NA)	15,104	78,563	13,048	27,556	64,530	276,420	r(8)	r(8)	8,056	r(NA)	r(NA)
	1955.....	r(NA)	r(NA)	r(NA)	14,219	67,098	12,119	25,159	54,704	293,571	r(8)	r(8)	7,150	r(NA)	r(NA)
	1954.....	10	28	28	14,680	63,340	12,410	24,960	51,173	159,237	(8)	(8)	4,276	(NA)	(NA)
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	13,363	60,922	11,546	25,297	50,400	168,228	(8)	(8)	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,838	55,348	10,974	23,932	45,105	120,494	(8)	(8)	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	13,340	51,840	11,381	24,801	42,844	116,922	(8)	(8)	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	14,089	48,617	12,149	26,147	40,426	99,899	(8)	(8)	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	13,688	43,915	11,713	24,472	35,836	68,011	(8)	(8)	(NA)	(NA)	(NA)
	1947.....	(NA)	27	26	14,629	44,790	13,065	29,751	38,967	93,196	(8)	(8)	4,176	(NA)	(NA)
3332 (old SIC 3332)	Primary lead:														
	1958.....	5	13	13	3,563	18,182	2,864	5,687	13,599	36,325	(8)	(8)	725	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,319	21,494	3,567	7,159	16,457	46,592	(8)	(8)	3,118	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,378	21,178	3,632	7,388	16,287	39,780	(8)	(8)	2,042	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,019	17,905	3,344	6,544	13,561	42,329	(8)	(8)	1,204	(NA)	(NA)
	1954.....	5	13	13	4,063	17,393	3,312	6,659	13,142	30,772	(8)	(8)	1,404	(NA)	(NA)
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,668	19,217	3,751	7,634	14,501	31,731	(8)	(8)	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,626	18,801	3,721	7,718	14,315	43,678	(8)	(8)	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,618	16,848	3,757	7,755	12,986	42,200	(8)	(8)	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,738	16,007	3,889	8,031	12,359	40,314	(8)	(8)	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	5,169	16,745	4,256	8,764	12,963	31,903	(8)	(8)	(NA)	(NA)	(NA)
	1947.....	6	16	16	4,663	14,082	4,022	8,879	11,610	35,902	(8)	(8)	2,649	(NA)	100
3333 (old SIC 3333)	Primary zinc:														
	1958.....	11	20	20	8,923	44,078	7,000	13,788	32,633	71,653	140,197	208,993	13,445	90	76
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,030	54,282	8,988	17,822	41,286	96,477	193,117	280,628	20,006	88	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,182	54,328	9,343	18,857	42,077	112,823	219,090	325,186	12,290	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,772	48,944	8,951	18,182	38,307	183,686	297,900	3,590	(NA)	(NA)	(NA)
	1954.....	13	21	21	10,470	44,042	8,638	16,546	34,104	87,501	143,768	231,340	5,276	87	(NA)
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,399	50,661	9,903	20,756	42,888	80,470	187,773	268,243	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,333	49,036	9,758	20,524	40,971	106,693	229,472	336,165	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,033	45,048	9,470	19,761	37,512	124,983	221,353	346,336	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,263	39,975	9,878	20,131	34,163	99,015	160,652	259,667	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,154	38,999	9,610	19,791	32,456	68,828	146,649	215,477	(NA)	(NA)	(NA)
	1947.....	14	20	20	12,424	35,476	11,088	22,232	30,475	77,068	113,928	190,996	6,739	(NA)	(NA)
3339 (old SIC 3339)	Primary nonferrous metals, nec:														
	1958.....	24	29	18	2,658	15,939	1,920	3,976	10,737	50,495	42,076	96,565	3,994	92	24
	1954.....	24	25	10	3,704	18,605	2,853	5,509	13,061	50,953	136,870	187,869	19,069	90	28
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,601	27,829	5,461	11,359	21,864	51,432	65,306	111,738	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	4,048	15,387	3,365	6,843	12,891	33,308	34,987	68,295	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	1,968	7,119	1,661	3,349	5,756	23,401	15,284	38,685	(NA)	(NA)	(NA)
	1947.....	(NA)	15	10	2,482	6,959	2,124	4,118	5,974	13,267	10,986	24,253	951	(NA)	(NA)
3331, 3332, 3333, and 3339	Total for primary copper, primary lead, primary zinc, and primary nonferrous metals, nec:														
	1958.....	(NA)	92	80	29,705	154,315	24,068	47,927	117,821	315,264	(8)	(8)	33,321	(NA)	(NA)
	1954.....	(NA)	87	72	32,917	143,380	27,213	53,674	111,480	328,463	(8)	(8)	30,025	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	35,398	151,014	29,914	63,533	122,255	370,617	(8)	(8)	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	33,039	129,123	27,973	59,160	106,233	371,876	(8)	(8)	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	32,058	111,718	27,577	57,658	92,704	300,619	(8)	(8)	(NA)	(NA)	(NA)
	1947.....	(NA)	78	72	34,198	101,307	30,299	64,980	86,846	260,895	(8)	(8)	14,515	(NA)	(NA)
	1939.....	(NA)	59	(NA)	29,561	44,703	24,828	(NA)	34,483	100,117	(8)	(8)	(NA)	(NA)	(NA)
	1937.....	(NA)	62	(NA)	33,485	51,876	29,815	(NA)	43,255	129,789	(8)	(8)	(NA)	(NA)	(NA)
	1935.....	(NA)	62	(NA)	25,267	31,001	22,478	(NA)	24,887	77,974	(8)	(8)	(NA)	(NA)	(NA)
	1933.....	(NA)	59	(NA)	16,564	17,418	14,567	(NA)	13,549	41,401	(8)	(8)	(NA)	(NA)	(NA)
	1931.....	(NA)	76	(NA)	(NA)	(NA)	18,477	(NA)	22,716	72,876	(8)	(8)	(NA)	(NA)	(NA)
	1929.....	(NA)	75	(NA)	34,928	60,057	30,981	(NA)	49,239	146,775	(8)	(8)	(NA)	(NA)	(NA)
	1927.....	(NA)	69	(NA)	33,916	52,923	30,510	(NA)	44,800	135,493	(8)	(8)	(NA)	(NA)	(NA)
	1925.....	(NA)	71	(NA)	36,251	55,226	32,992	(NA)	47,948	153,061	(8)	(8)	(NA)	(NA)	(NA)
	1923.....	(NA)	84	(NA)	(NA)	(NA)	34,889	(NA)	51,123	121,803	(8)	(8)	(NA)	(NA)	(NA)
	1921.....	(NA)	80	(NA)	21,889	30,704	15,580	(NA)	24,401	58,695	(8)	(8)	(NA)	(NA)	(NA)
	1919.....	(NA)	98	(NA)	41,910	63,146	37,579	(NA)	52,686	118,220	(8)	(8)	(NA)	(NA)	(NA)
	1914.....	(NA)	88	(NA)	37,952	35,573	34,733	(NA)	28,983	96,395	(8)	(8)	(NA)	(NA)	(NA)
	1909.....	(NA)	95	(NA)	32,037	27,925	29,707	(NA)	23,037	69,692	(8)	(8)	(NA)	(NA)	(NA)
	1904.....	(NA)	103	(NA)	28,540	23,055	26,853	(NA)	20,058	68,674	(8)	(8)	(NA)	(NA)	(NA)
	1899.....	(NA)	117	(NA)	25,633	18,124	24,512	(NA)	15,974	79,131	(8)	(8)	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3334 (old SIC 3334)	Primary aluminum:														
	1958.....	6	20	20	17,381	111,588	13,428	27,738	82,750	383,836	411,758	808,822	85,497	100	76
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,500	117,814	16,327	33,430	89,678	406,302	421,982	804,049	150,955	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,120	112,070	17,046	34,752	86,547	389,617	409,901	767,227	103,997	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,020	99,771	16,382	33,886	78,418	328,651	361,472	692,732	74,941	(NA)	(NA)
	1954.....	3	16	16	20,626	96,813	16,982	35,335	77,174	258,944	339,964	604,195	26,073	100	78
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,568	86,894	16,726	34,183	70,991	169,656	306,906	476,562	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	14,272	60,143	11,735	24,923	47,653	133,725	206,291	340,016	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,162	46,793	10,133	21,991	37,729	126,939	174,841	301,780	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,663	37,151	8,869	18,215	29,707	105,264	136,268	241,532	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,928	31,155	7,314	16,769	24,596	66,837	117,501	184,338	(NA)	(NA)	(NA)
	1947.....	3	11	11	8,919	26,398	7,336	16,014	20,930	65,262	95,748	161,010	2,791	(NA)	(NA)
	1939 <sup>10</sup> .....	(NA)	4	(NA)	3,345	5,120	2,802	(NA)	3,928	36,885	27,715	64,600	(NA)	(NA)	(NA)
3341 (old SIC 3341)	Secondary nonferrous metals:														
	1958.....	349	387	152	14,441	75,669	10,813	21,194	46,869	147,262	581,589	724,013	5,355	93	30
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,167	86,875	13,087	26,077	56,060	141,271	729,561	885,717	(S)	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,969	88,883	13,901	28,357	58,216	199,258	902,925	1,077,047	9,581	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,635	82,696	13,648	28,772	55,024	203,661	877,889	1,070,536	(S)	(NA)	(NA)
	1954 <sup>11</sup> .....	(NA)	354	140	15,155	68,822	11,754	24,146	44,867	144,800	599,392	742,188	9,254	(NA)	(NA)
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,792	58,800	9,877	20,870	40,133	107,714	603,559	711,273	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	16,853	72,943	12,732	26,414	45,719	150,135	697,949	848,084	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	16,946	68,774	12,879	27,554	44,837	154,635	810,497	965,132	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,981	59,138	12,337	26,123	38,964	137,660	723,242	860,902	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	14,024	49,069	10,476	21,965	30,799	99,372	544,896	644,268	(NA)	(NA)	(NA)
	1947.....	272	321	(NA)	18,089	55,897	14,511	31,023	38,561	119,153	602,803	721,956	7,225	(NA)	(NA)
	1939 <sup>10</sup> .....	(NA)	280	(NA)	(NA)	(NA)	8,109	(NA)	11,320	41,381	212,182	235,563	(NA)	(NA)	(NA)

NA Not available. <sup>11</sup>Revised.<sup>9</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3331	163,664	3334	264,201
3332	30,772	3339	50,955
3333	87,501	3341	135,230

<sup>4</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)	Industry Code	Cost of Materials, etc. (\$1,000)
	1958		1954
3331	(8)	3334	404,685
3332	(8)	3339	339,875
3333	134,807	3341	41,991
			136,794
			509,916
			(NA)

Footnotes continued on next page.



## SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS

33C-9

Footnotes for Table 1-33C

<sup>2</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3331	(8)	(8)	3334	801,730	604,076
3332	(8)	(8)	3339	96,480	187,749
3333	203,363	230,515	3341	648,157	(NA)

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>Cost of materials and value of shipments are not shown for industries for which these figures contain extensive duplication.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufacturers. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>Data for 1954 have been revised to exclude establishments originally classified in this industry. Accordingly, data for 1953 and earlier years are not comparable with 1954 and 1958. Selected data for 1954 on a basis comparable with data for earlier years are as follows: Number of establishments, 360; total employment, 15,775; unadjusted value added by manufacture \$142,329 thousand; cost of materials \$657,519 thousand; and value of shipments \$807,725 thousand.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number	
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
3331	Primary copper, total.....	30	29	14,561	76,116	12,284	24,476	60,852	158,122	( <sup>2</sup> )	15,157	14,680	163,664	14,629	
	Middle Atlantic...	7	7	5,180	27,879	4,262	8,671	21,680	48,926	( <sup>2</sup> )	3,688		60,140	8,557	
	North Central and South.....	6	5	2,306	10,994	2,001	3,984	9,157	18,981	( <sup>2</sup> )	(D)		7,268	103,524	6,072
	West.....	17	17	7,075	37,243	6,021	11,821	30,015	90,215	( <sup>2</sup> )	(D)		103,524	6,072	
3332	Primary lead, total.	13	13	3,563	18,182	2,864	5,687	13,599	36,325	( <sup>2</sup> )	725	4,063	30,772	4,663	
3333	Primary zinc, total.	20	20	8,923	44,078	7,000	13,788	32,633	71,653	208,993	13,445	10,470	87,501	12,424	
	North Central.....	5	5	1,347	6,233	1,056	2,020	4,726	8,522	32,729	( <sup>3</sup> )	1,534	13,129	2,430	
	South.....	8	8	3,372	17,364	2,993	6,096	14,358	33,277	83,474	1,742	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
	All other divisions.....	7	7	4,204	20,481	2,951	5,672	13,549	29,854	92,790	11,407	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
3334	Primary aluminum, total.....	20	20	17,381	111,588	13,428	27,738	82,750	383,836	808,822	85,497	20,626	264,201	8,919	
	West South Central	6	6	6,803	45,176	5,310	11,231	33,518	176,537	350,813	(D)	8,581	107,637	(D)	
	West.....	8	8	4,564	28,401	3,574	7,089	21,778	110,958	229,115	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
	All other divisions.....	6	6	6,014	38,011	4,544	9,418	27,454	96,341	228,894	62,654	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
3339	Primary nonferrous metals, nec, total.	29	18	2,658	15,939	1,920	3,976	10,737	50,495	96,565	3,994	3,704	50,955	2,482	
	Northeast.....	9	6	421	2,672	256	555	1,421	6,551	13,537	1,570	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
	North Central and South.....	10	7	1,480	8,979	1,083	2,234	6,124	36,106	61,651	1,718	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
	West.....	10	5	757	4,288	581	1,187	3,192	7,838	21,377	706	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3341	Secondary nonferrous metals, total.....	387	152	14,441	75,669	10,813	21,194	46,869	147,262	724,013	5,355	15,155	135,230	18,089
	New England.....	33	11	424	2,385	297	623	1,175	8,145	30,104	( <sup>3</sup> )	376	5,421	804
	Massachusetts....	14	8	259	1,412	188	401	738	6,005	20,595	( <sup>3</sup> )	222	3,038	179
	Rhode Island....	11	3	105	639	72	145	262	1,565	6,598	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic...	122	43	4,298	22,227	3,123	5,978	13,452	43,739	231,756	2,091	4,434	32,690	5,443
	New York.....	59	13	1,488	6,760	1,166	2,030	4,562	10,965	67,785	( <sup>3</sup> )	1,376	8,936	1,427
	New Jersey.....	28	14	1,291	7,250	871	1,796	4,174	11,316	92,156	554	1,625	10,376	1,350
	Pennsylvania....	35	16	1,519	8,217	1,086	2,152	4,716	21,458	71,815	1,187	1,432	13,377	2,666
	East North Central	123	53	6,278	35,110	4,789	9,712	22,120	64,011	316,466	1,783	7,035	67,042	7,231
	Illinois.....	40	23	3,489	19,656	2,706	5,438	12,354	35,992	165,425	794	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Michigan.....	19	6	407	2,264	327	685	1,508	2,466	19,312	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	14	8	482	2,250	360	697	1,384	4,362	24,497	( <sup>3</sup> )	554	21,794	469
	Missouri.....	8	2	185	888	131	253	533	1,941	8,009	( <sup>3</sup> )	205	1,033	213
	South Atlantic....	13	6	543	2,635	441	918	1,873	6,338	23,957	( <sup>3</sup> )	582	4,962	261
	East South Central	8	3	190	774	147	306	455	1,743	6,199	( <sup>3</sup> )	217	1,518	228
	West South Central	22	9	552	2,318	430	853	1,578	2,843	24,247	( <sup>3</sup> )	508	4,357	2,158
	Texas.....	16	6	363	1,480	279	553	1,028	1,422	13,988	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Mountain.....	6	1	82	321	62	117	221	788	2,576	( <sup>3</sup> )	19	14	(D)
	Pacific.....	46	18	1,592	7,649	1,164	1,990	4,611	15,293	64,211	( <sup>3</sup> )	1,390	14,408	(D)
	California.....	39	16	1,479	7,064	1,082	1,836	4,213	14,096	59,016	( <sup>3</sup> )	1,292	13,716	1,342

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3331, Primary copper: Middle Atlantic—New York, 2 (1,000-2,499); New Jersey, 4 (2,500-4,999); Pennsylvania, 1 (20-99); North Central and South—Michigan, 2 (100-249); Maryland, 1 (500-999); Tennessee, 1 (20-99); Texas, 2 (1,000-2,499); West—Montana, 2 (1,000-2,499); New Mexico, 2 (100-249); Arizona, 8 (1,000-2,499); Utah, 2 (1,000-2,499); Nevada, 1 (250-499); Washington, 2 (500-999).

SIC 3332, Primary lead: Middle Atlantic—New Jersey, 1 (20-99); East North Central—Indiana, 1 (100-249); Illinois, 1 (100-249); West North Central—Missouri, 1 (250-499); Nebraska, 1 (250-499); West South Central—Texas, 1 (500-999); Mountain—Montana, 1 (100-249); Idaho, 1 (500-999); Colorado, 1 (100-249); Utah, 2 (250-499); Pacific—California, 2 (500-999).

SIC 3333, Primary zinc: Middle Atlantic—Pennsylvania, 2 (1,000-2,499); North Central—Illinois, 4 (1,000-2,499); Kansas, 1 (20-99); South—West Virginia, 1 (100-249); Arkansas, 1 (100-249); Oklahoma, 3 (1,439); Texas, 3 (1,000-2,499); Mountain—Montana, 3 (1,000-2,499); Idaho, 1 (500-999); Utah, 1 (100-249).

SIC 3334, Primary aluminum: Middle Atlantic—New York, 1 (500-999); East North Central—Ohio, 1 (500-999); South Atlantic—West Virginia, 1 (500-999); North Carolina, 1 (500-999); East South Central—Tennessee, 1 (1,000-2,499); Alabama, 1 (1,000-2,499); West South Central—Arkansas, 2 (1,000-2,499); Louisiana, 1 (1,000-2,499); Texas, 3 (2,500-4,999); West—Montana, 1 (500-999); Washington, 5 (2,500-4,999); Oregon, 2 (500-999).

SIC 3339, Primary nonferrous metals, nec: Northeast—Connecticut, 1 (20-99); New York, 4 (100-249); Pennsylvania, 4 (100-249); North Central and South—Ohio, 1 (250-499); Michigan, 2 (20-99); South Atlantic—Delaware, 1 (1-19); West Virginia, 1 (100-249); Tennessee, 1 (100-249); Arkansas, 1 (1-19); Texas, 3 (500-999); West—Montana, 2 (1-19); Idaho, 1 (1-19); Colorado, 1 (100-249); Arizona, 1 (1-19); Utah, 1 (100-249); Nevada, 1 (20-99); Washington, 1 (1-19); Oregon, 2 (250-499).

SIC 3341, Secondary nonferrous metals: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Connecticut, 6 (20-99); East North Central—Ohio, 44 (1,397); Indiana, 11 (500-999); Wisconsin, 9 (20-99); West North Central—Minnesota, 3 (20-99); Iowa, 1 (20-99); Nebraska, 1 (20-99); Kansas, 1 (100-249); South Atlantic—Delaware, 1 (100-249); Maryland, 4 (1-19); Virginia, 1 (20-99); North Carolina, 1 (20-99); Georgia, 2 (100-249); Florida, 4 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 3 (20-99); Alabama, 3 (20-99); Mississippi, 1 (1-19); West South Central—Arkansas, 2 (20-99); Louisiana, 1 (20-99); Oklahoma, 3 (20-99); Mountain—Colorado, 2 (1-19); Arizona, 3 (20-99); Utah, 1 (20-99); Pacific—Washington, 5 (20-99); Oregon, 2 (20-99).

<sup>2</sup>Omitted because of extensive duplication of value of shipments and cost of materials which arises because the products shipped by some establishments are consumed as materials by other establishments in the same industry.<sup>3</sup>Less than \$500 thousand.<sup>4</sup>This State, division, or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



## SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS

33C-11

Table 3.—Detailed Statistics for the United States: 1958

Item	Primary copper (SIC 3331)	Primary lead (SIC 3332)	Primary zinc (SIC 3333)	Primary aluminum (SIC 3334)	Primary nonferrous metals, nec (SIC 3339)	Secondary nonferrous metal (SIC 3341)
Primary product specialization ratio <sup>1</sup> .....	( <sup>2</sup> )	( <sup>2</sup> )	90	100	92	93
Coverage ratio <sup>3</sup> .....	( <sup>2</sup> )	( <sup>2</sup> )	76	76	24	30
Number of establishments, total.....	30	13	20	20	29	387
With 1-19 employees.....	1	...	...	...	11	235
With 20-99 employees.....	4	2	2	1	8	119
With 100 employees or more.....	25	11	18	19	10	33
Proprietors and working partners.....Number..	2	...	...	...	8	125
All employees:						
Number (average for the year).....	14,561	3,563	8,923	17,381	2,658	14,441
Payroll.....\$1,000..	76,116	18,182	44,078	111,588	15,939	75,669
Production workers:						
Number (average for the year).....	12,284	2,864	7,000	13,428	1,920	10,813
March.....	12,545	2,968	7,538	14,129	2,393	10,619
May.....	11,985	3,006	6,962	12,842	1,875	10,380
August.....	12,089	2,762	6,621	12,983	1,733	10,861
November.....	12,520	2,715	6,859	13,762	1,689	11,467
Man-hours.....1,000..	24,476	5,687	13,788	27,738	3,976	21,194
January-March.....do...	6,376	1,533	3,796	7,561	1,312	5,180
April-June.....do...	5,870	1,456	3,423	6,515	904	5,091
July-September.....do...	5,668	1,349	3,189	6,584	869	5,083
October-December.....do...	6,562	1,349	3,380	7,078	891	5,840
Wages.....\$1,000..	60,852	13,599	32,633	82,750	10,737	46,869
Cost of materials, etc., total.....do...	( <sup>2</sup> )	( <sup>2</sup> )	140,197	411,758	42,076	581,589
Materials, parts, containers, and supplies consumed.....do...	( <sup>2</sup> )	( <sup>2</sup> )	113,813	319,639	37,478	495,744
Cost of resales.....do...	45	337	5,390	7,073	85	71,673
Fuels consumed.....do...	16,273	7,180	10,274	22,880	803	7,528
Electricity purchased.....do...	5,491	931	9,231	56,344	3,295	2,632
Contract work.....do...	2,833	4,949	1,489	5,822	415	4,012
Value of shipments (including resales), total.....do...	( <sup>2</sup> )	( <sup>2</sup> )	208,993	808,822	96,565	724,013
Value of resales.....do...	50	337	5,630	7,092	85	75,856
Value added by manufacture, adjusted.....do...	<sup>r</sup> 158,122	36,325	71,653	383,836	50,495	147,262
Manufacturers' inventories:						
Beginning of year, total.....do...	151,741	54,834	<sup>r</sup> 58,576	127,784	24,320	95,809
Finished products.....do...	55,039	18,309	22,202	57,998	11,812	50,472
Work-in-process.....do...	84,569	29,161	13,849	24,482	6,208	22,481
Materials, supplies, fuel, etc.....do...	12,133	7,364	22,525	45,304	6,300	22,856
End of year, total.....do...	<sup>r</sup> 148,296	<sup>r</sup> 66,461	61,987	111,293	<sup>r</sup> 17,403	<sup>r</sup> 105,253
Finished products.....do...	43,741	36,143	27,095	44,526	7,735	48,600
Work-in-process.....do...	92,302	23,224	11,813	24,726	6,291	29,191
Materials, supplies, fuel, etc.....do...	12,253	7,094	23,079	42,041	3,377	27,462
Expenditures for plant and equipment, total.....do...	15,163	727	13,445	87,064	4,195	5,636
New, total.....do...	15,157	725	13,445	85,497	3,994	5,355
New structures and additions to plant.....do...	2,326	( <sup>4</sup> )	12,150	28,836	1,249	1,432
New machinery and equipment.....do...	12,831	( <sup>4</sup> )	1,295	56,661	2,745	3,923
Used plant and equipment.....do...	( <sup>4</sup> )	( <sup>4</sup> )	...	1,567	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>Omitted because of extensive duplication of value of shipments and cost of materials. The duplication arises because products shipped by some establishments are consumed as materials by other establishments in the same industry.

<sup>3</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>4</sup>Less than \$500 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3331	Primary copper:											
	Number of establishments.....	30	...	1	...	...	4	6	9	6	4	...
	All employees:											
	Number.....	14,561	...	<u>310</u>	...	...	(D)	1,050	3,117	<u>10,084</u>	(D)	...
	Payroll.....\$1,000..	76,116	...	<u>1,813</u>	...	...	(D)	5,130	15,777	<u>53,396</u>	(D)	...
	Value added, adjusted..do....	<sup>r</sup> 158,122	...	<u>3,341</u>	...	...	(D)	12,211	39,942	<u>102,628</u>	(D)	...
	Value of shipments.....do....	( <sup>2</sup> )	...	( <sup>2</sup> )	...	...	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	...
	Capital expend., new...do....	15,157	...	<u>15,157</u>	...	...	(D)	(D)	(D)	(D)	(D)	...
3332	Primary lead:											
	Number of establishments.....	13	...	...	...	2	6	3	2	...	...	...
	All employees:											
	Number.....	3,563	...	...	...	<u>3,563</u>	(D)	(D)	(D)	...	...	...
	Payroll.....\$1,000..	18,182	...	...	...	<u>18,182</u>	(D)	(D)	(D)	...	...	...
	Value added, adjusted..do....	36,325	...	...	...	<u>36,325</u>	(D)	(D)	(D)	...	...	...
	Value of shipments.....do....	( <sup>2</sup> )	...	...	...	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	...	...	...
	Capital expend., new...do....	725	...	...	...	<u>725</u>	(D)	(D)	(D)	...	...	...
3333	Primary zinc:											
	Number of establishments.....	20	...	...	...	1	1	4	6	7	1	...
	All employees:											
	Number.....	8,923	...	...	...	748	(D)	(D)	2,142	<u>6,033</u>	(D)	...
	Payroll.....\$1,000..	44,078	...	...	...	<u>4,141</u>	(D)	(D)	10,374	<u>29,563</u>	(D)	...
	Value added, adjusted..do....	71,653	...	...	...	<u>5,281</u>	(D)	(D)	18,780	<u>47,592</u>	(D)	...
	Value of shipments.....do....	208,993	...	...	...	<u>20,381</u>	(D)	(D)	53,091	<u>135,521</u>	(D)	...
	Capital expend., new...do....	13,445	...	...	...	( <sup>1</sup> )	(D)	(D)	564	<u>12,587</u>	(D)	...
3334	Primary aluminum:											
	Number of establishments.....	20	...	...	...	1	...	...	3	10	6	...
	All employees:											
	Number.....	17,381	...	...	...	<u>1,335</u>	...	...	(D)	7,410	<u>8,636</u>	...
	Payroll.....\$1,000..	111,588	...	...	...	<u>7,734</u>	...	...	(D)	47,655	<u>56,199</u>	...
	Value added, adjusted..do....	383,836	...	...	...	<u>34,976</u>	...	...	(D)	148,951	<u>199,909</u>	...
	Value of shipments.....do....	808,822	...	...	...	<u>73,703</u>	...	...	(D)	338,546	<u>396,573</u>	...
	Capital expend., new...do....	85,497	...	...	...	<u>73,372</u>	...	...	(D)	(D)	<u>12,125</u>	...
3339	Primary nonferrous metals, nec:											
	Number of establishments.....	29	6	3	2	4	4	7	2	1	...	...
	All employees:											
	Number.....	2,658	15	46	(D)	105	260	1,031	<u>1,201</u>	(D)	...	...
	Payroll.....\$1,000..	15,939	93	<u>400</u>	(D)	628	1,449	5,842	<u>7,527</u>	(D)	...	...
	Value added, adjusted..do....	50,495	300	<u>1,062</u>	(D)	811	3,726	20,739	<u>23,857</u>	(D)	...	...
	Value of shipments.....do....	96,565	837	<u>6,608</u>	(D)	1,569	6,983	39,205	<u>41,363</u>	(D)	...	...
	Capital expend., new...do....	3,994	<u>778</u>	(D)	(D)	<u>1,293</u>	(D)	975	<u>948</u>	(D)	...	...
3341	Secondary nonferrous metals:											
	Number of establishments.....	387	100	69	66	80	39	25	6	1	1	...
	All employees:											
	Number.....	14,441	235	465	883	2,476	2,856	3,902	<u>3,624</u>	(D)	(D)	...
	Payroll.....\$1,000..	75,669	1,171	2,364	4,672	13,359	14,383	19,542	<u>20,178</u>	(D)	(D)	...
	Value added, adjusted..do....	147,262	1,201	5,078	8,692	28,681	32,208	34,695	<u>36,707</u>	(D)	(D)	...
	Value of shipments.....do....	724,013	12,227	15,953	46,841	139,525	178,695	192,540	<u>138,232</u>	(D)	(D)	...
	Capital expend., new...do....	5,355	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	917	1,036	1,068	<u>1,359</u>	(D)	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding. <sup>r</sup>Revised.

<sup>1</sup>Less than \$500 thousand.

<sup>2</sup>Value of shipments for this industry is omitted because it contains extensive duplication. The duplication arises because products shipped by some of the establishments are consumed as materials by other establishments classified in the same industry.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year <sup>1</sup>	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>2</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>3</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3333	Primary zinc.....1958..	208,993	176,632	19,441	12,920	90	232,513	176,632	55,881	<sup>4</sup> 76
	1954..	231,340	187,435	28,617	15,288	87	(NA)	(NA)	(NA)	(NA)
3334	Primary aluminum.....1958..	808,822	800,011	...	8,811	100	1,057,801	800,011	257,790	<sup>5</sup> 76
	1954..	604,195	602,282	625	1,288	100	767,512	602,282	165,230	78
3339	Primary nonferrous metals, nec...1958..	96,565	87,131	7,536	1,898	92	362,694	87,131	275,563	<sup>6</sup> 24
	1954..	187,869	168,538	18,567	764	90	480,604	134,351	346,253	28
3341	Secondary nonferrous metals.....1958..	724,013	563,138	45,562	115,313	93	1,859,159	563,138	1,296,021	<sup>7</sup> 30

<sup>1</sup>Specialization and coverage ratios are not meaningful for Industries 3331, Primary Copper and 3332, Primary Lead, because the shipments of primary products for these industries contain extensive duplication. See table 5B for value of shipments of secondary products and miscellaneous receipts.

<sup>2</sup>Revised.

<sup>3</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>4</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>5</sup>Included in this industry is refined zinc which is also primary to Industry 3341, Secondary Nonferrous Metals. A coverage ratio computed on the basis of including both industries to which refined zinc is primary would total 93 percent; 76 percent by Industry 3333 and 17 percent by Industry 3341. The remaining 7 percent was shipped by establishments in other industries.

<sup>6</sup>Included in this industry are aluminum-base alloys which are also primary to Industry 3341, Secondary Nonferrous Metals, and Industry 3352, Aluminum Rolling and Drawing. A coverage ratio computed on the basis of including all three industries to which aluminum-base alloys are primary would total 99 percent; 76 percent by Industry 3334, 13 percent by Industry 3341, and 10 percent by Industry 3352. The remainder was shipped by establishments in other industries.

<sup>7</sup>Included in this industry are refined nonferrous alloys, nec which are also primary to Industry 3341, Secondary Nonferrous Metals. A coverage ratio computed on the basis of including both industries to which refined nonferrous alloys, nec, are primary would total 45 percent; 24 percent by Industry 3339, and 21 percent by Industry 3341. The remaining 55 percent was shipped by establishments classified in other industries.

<sup>8</sup>Included in this industry are refined copper, lead, zinc, aluminum, precious metals and other nonferrous metals. Each of these product classes is also primary to the comparable primary smelting and refining industry in Group 333. A coverage ratio computed on the basis of including both industries to which the classes are primary would total 80 percent; 30 percent by Industry 3341, and 50 percent by primary nonferrous smelters and refiners. The remaining 20 percent was shipped by establishments in other industries.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Primary copper industry	Primary copper (SIC 3331)	Secondary nonferrous metals (SIC 3341)	Other industries	All industries
	Total shipments and receipts of the industry.....	( <sup>1</sup> )	xxx	xxx	xxx
	Primary products.....	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )
33311	Copper smelter products.....	<sup>r</sup> 360,737	(D)	(D)	<sup>r</sup> 361,588
33312	Refined copper.....	<sup>r</sup> 320,496	151,929	7,315	<sup>r</sup> 479,740
	Secondary products.....	<sup>r</sup> 72,996	xxx	xxx	xxx
28199	Miscellaneous high grade inorganic chemicals.....	<sup>r</sup> 6,098	xxx	xxx	xxx
33395	Precious metals.....	59,750	xxx	xxx	xxx
	All other products.....	<sup>r</sup> 1,148	xxx	xxx	xxx
	Miscellaneous receipts.....	73,096	xxx	xxx	xxx
	Smelting and refining materials owned by others on a sale basis.....	70,719	xxx	xxx	xxx
	All other receipts.....	2,377	xxx	xxx	xxx
Prod. class code	Primary lead industry	Primary lead (SIC 3332)	Secondary nonferrous metals (SIC 3341)	Other industries	All industries
	Total shipments and receipts of the industry.....	( <sup>1</sup> )	xxx	xxx	xxx
	Primary products.....	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )
33321	Lead smelter products.....	(D)	(D)	(D)	(D)
33323	Refined lead.....	104,788	137,446	<sup>3</sup> 38,703	<sup>4</sup> 280,937
	Secondary products.....	<sup>5</sup> 96,880	xxx	xxx	xxx
	Miscellaneous products.....	(D)	xxx	xxx	xxx
	Receipts smelting and refining of materials owned by others on a sale basis.....	6,373	xxx	xxx	xxx
	All other receipts.....	(D)	xxx	xxx	xxx
Prod. class code	Primary zinc industry	Primary zinc (SIC 3333)	Secondary nonferrous metals (SIC 3341)	Other industries	All industries
	Total shipments and receipts of the industry.....	208,993	xxx	xxx	xxx
	Primary products.....	176,632	40,906	14,975	<sup>a</sup> 232,513
33331	Zinc residues and other zinc smelter products.....	18,495	1,700	5,627	25,822
33334	Refined zinc products.....	158,137	39,206	9,348	<sup>a</sup> 206,691
	Secondary products.....	19,441	xxx	xxx	xxx
28193	Sulfuric acid.....	6,273	xxx	xxx	xxx
33397	Miscellaneous nonferrous metals, nec.....	5,508	xxx	xxx	xxx
	All other products.....	7,661	xxx	xxx	xxx
	Miscellaneous receipts.....	<sup>7</sup> 12,920	xxx	xxx	xxx
Prod. class code	Primary aluminum industry	Primary aluminum (SIC 3334)	Secondary nonferrous metals (SIC 3341)	Other industries	All industries
	Total shipments and receipts of the industry.....	808,822	xxx	xxx	xxx
	Primary products.....	800,011	151,404	106,386	<sup>a</sup> 1,057,801
33341	Aluminum-base alloys (pig, ingot, shot, etc.).....	260,838	140,471	<sup>a</sup> 106,386	<sup>8</sup> 507,695
33342	Refined unalloyed aluminum.....	539,173	10,933	...	550,106
	Miscellaneous receipts.....	<sup>10</sup> 8,811	xxx	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Primary nonferrous metals, nec industry	Primary nonferrous metals, nec (SIC 3339)	Secondary nonferrous metals (SIC 3341)	Other industries	All industries
	Total shipments and receipts of the industry.....	96,565	xxx	xxx	xxx
	Primary products.....	87,131	74,754	200,809	<sup>11</sup> 12,362,694
33395	Precious metals.....	86,431	{ 52,956 21,798 ... }	<sup>13</sup> 200,728	{ <sup>11</sup> 198,587 <sup>12</sup> 163,326 781 }
33397	Other nonferrous metals, including magnesium, smelted or refined.....				
33390	Nonferrous metals, nsk.....				
	Secondary products.....	7,536	xxx	xxx	xxx
28199	Reagent and high purity grades of inorganic chemicals.....	2,878	xxx	xxx	xxx
33560	Rolled, drawn and extruded nonferrous mill products, nec.....	3,018	xxx	xxx	xxx
	All other products.....	1,640	xxx	xxx	xxx
	Miscellaneous receipts.....	1,898	xxx	xxx	xxx
	Smelting and refining of materials owned by others on a toll basis.....	1,675	xxx	xxx	xxx
	All other receipts.....	223	xxx	xxx	xxx
Prod. class code	Secondary nonferrous metals industry	Secondary nonferrous metals (SIC 3341)	Other industries	All industries	
	Total shipments and receipts of the industry.....	724,013	xxx	xxx	
	Primary products.....	563,138	<sup>r</sup> 1,296,021	<sup>r</sup> 1,859,159	
33411	Aluminum-base alloys (pig, ingot, shot, etc.).....	140,471	<sup>14</sup> 367,224	<sup>15</sup> 507,695	
33412	Refined copper.....	151,929	<sup>r16</sup> 327,811	<sup>r17</sup> 479,740	
33413	Refined lead.....	137,446	<sup>18</sup> 143,491	<sup>19</sup> 280,937	
33414	Refined zinc.....	39,206	<sup>20</sup> 167,485	<sup>21</sup> 206,691	
33415	Precious metals.....	52,956	<sup>22</sup> 145,631	<sup>23</sup> 198,587	
33416	Other nonferrous metals.....	21,798	<sup>24</sup> 141,528	<sup>25</sup> 163,326	
33410	Secondary nonferrous smelting and refining, nsk.....	19,332	2,851	22,183	
	Secondary products.....	45,562	xxx	xxx	
28199	Reagent and high purity grades of inorganic chemicals.....	6,220	xxx	xxx	
33331	Zinc residues and other zinc smelter products.....	1,700	xxx	xxx	
33342	Refined unalloyed aluminum.....	10,933	xxx	xxx	
	All other products.....	<sup>25</sup> 26,709	xxx	xxx	
	Miscellaneous receipts.....	115,313	xxx	xxx	
	Value of resales.....	75,856	xxx	xxx	
	Scrap and salable refuse.....	18,182	xxx	xxx	
	Receipts for smelting and refining materials owned by others on a toll basis.....	8,188	xxx	xxx	
	All other receipts.....	13,087	xxx	xxx	

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.<sup>1</sup>Value of products shipped is omitted for this industry because it contains extensive duplication. The duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry.<sup>2</sup>Includes total for product class 33412, Refined copper, made by secondary smelters, which is primary to Industry 3341.<sup>3</sup>Represents mainly Industry 3356, Nonferrous Rolling and Drawing, NEC.<sup>4</sup>Includes total for product class 33413, Refined lead, made by secondary smelters, which is primary to Industry 3341.<sup>5</sup>Represents mainly precious metals.<sup>6</sup>Includes total for product class 33413, Refined lead, made by secondary smelters, which is primary to Industry 3341.<sup>7</sup>Represents mainly receipts received for smelting or refining metal on a toll basis.<sup>8</sup>Includes total for product class 33411, Aluminum-base alloys, made by secondary smelters, which is primary to Industry 3341; and product code 3352011, aluminum-base alloys made in aluminum rolling mills which is primary to Industry 3352.<sup>9</sup>Includes \$101,739 thousand shipped by Industry 3352, Aluminum Rolling and Drawing.<sup>10</sup>Represents mainly resales.<sup>11</sup>Includes total for product class 33415, Precious metals, shipped by secondary smelters, which is primary to Industry 3341.<sup>12</sup>Includes total for product class 33416, Other nonferrous metals, shipped by secondary smelters, which is primary to Industry 3341.<sup>13</sup>Includes \$12 million shipped by Industry 2819, Inorganic Chemicals, NEC; \$64 million shipped by Industry 3331, Primary Copper; \$84 million shipped by Industry 3332, Primary Lead; and \$16 million shipped by Industry 3356, Nonferrous Rolling and Drawing, NEC.<sup>14</sup>See also Industry 3334 above.<sup>15</sup>Includes total for product class 3341, Aluminum-base alloys, made in primary aluminum industry, which is primary to Industry 3334, and product code 3352011, aluminum-base alloys made in aluminum rolling mills which is primary to Industry 3352.<sup>16</sup>See also Industry 3331 above.<sup>17</sup>Includes total for product class 33312, Refined copper, made in primary copper industry, which is primary to Industry 3331.<sup>18</sup>See also Industry 3332 above.<sup>19</sup>Includes total for product class 33323, Refined lead, made in primary lead industry, which is primary to Industry 3332.<sup>20</sup>See also Industry 3333 above.<sup>21</sup>Includes total for product class 33334, Refined zinc, made in primary zinc industry, which is primary to Industry 3333.<sup>22</sup>See also Industry 3339 above.<sup>23</sup>Includes total for product class 33395, Precious metals, made in Primary Nonferrous Metals, NEC, Industry, which is primary to Industry 3339.<sup>24</sup>Includes total for product class 33397, Other nonferrous metals, made in Primary Nonferrous Metals, NEC, Industry, which is primary to Industry 3339.<sup>25</sup>Represents mainly rolled, drawn and extruded copper and copper-base alloy mill products, except wire.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total production <sup>2</sup> (gross weight)	Shipments including interplant transfers <sup>1, 2</sup>						Total shipments of products made from materials owned by others <sup>3</sup> (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity (gross weight)	Value	Quantity (gross weight)	Value	Quantity (gross weight)	Value		
	1958	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)
3331---	Primary copper, total.....	xxx	xxx	841,328	xxx	529,387	xxx	311,941	xxx	xxx
33311--	Copper smelter products.....	xxx	xxx	361,588	xxx	60,817	xxx	300,771	353,443	62,915
3331111	Blister or anode copper.....	1,040,383	656,316	354,446	115,676	59,306	540,640	295,140	353,443	} 62,915
3331151	Matte, speiss, flue dust, residues, etc....	55,459	50,159	7,142	11,541	1,511	38,618	5,631	...	
33312--	} Refined copper.....	xxx	xxx	479,740	xxx	468,570	xxx	11,170	xxx	xxx
33412--										
33312--	Made by primary copper refiners (Industry 3331).....	xxx	xxx	320,496	xxx	(D)	xxx	(D)	xxx	xxx
33412--	Made by secondary refiners (Industry 3341)	xxx	xxx	151,929	xxx	(D)	xxx	(D)	xxx	xxx
	All other industries.....	xxx	xxx	7,315	xxx	(D)	xxx	(D)	xxx	xxx
3331211	} Refined unalloyed copper.....	1,595,452	649,257	344,188	(D)	(D)	(D)	(D)	1,032,241	4,960
3341211										
3341211	Made in Industry 3341.....	40,148	59,328	31,248	(D)	(D)	(D)	(D)	...	} 4,960
3331211	Made in Industry 3331.....	1,555,304	589,929	312,940	589,929	312,940	...	...	1,032,241	
3331215	} Copper-base alloys.....	318,437	254,543	135,552	(D)	(D)	(D)	(D)	3,435	(D)
3341231										
3331215	Made in Industry 3331.....	} 318,437	{	10,888	7,556	{	(D)	(D)	(D)	(D)
3341231	Made in Industry 3341.....			234,766	120,681					
	All other industries.....			8,889	7,315					
3332---	Primary lead, total.....	xxx	xxx	(D)	xxx	(D)	xxx	(D)	xxx	xxx
33321--	Lead smelter products.....	xxx	xxx	(D)	xxx	(D)	xxx	(D)	xxx	xxx
3332111	Base bullion.....	479,846	}	(D)	(D)	(D)	(D)	(D)	(D)	} 209,754
3332151	Matte, speiss, etc.....	118,562		(D)	(D)	(D)	(D)	(D)	(D)	
33323--	} Refined lead.....	xxx	xxx	280,937	xxx	(D)	xxx	(D)	xxx	xxx
33413--										
33323--	Made by primary lead refiners (Industry 3332).....	xxx	xxx	104,788	xxx	(D)	xxx	(D)	xxx	xxx
33413--	Made in Industry 3341.....	xxx	xxx	137,446	xxx	(D)	xxx	(D)	xxx	xxx
	All other industries.....	xxx	xxx	38,703	xxx	(D)	xxx	(D)	xxx	xxx
3332311	} Refined unalloyed lead.....	658,569	521,108	120,116	509,074	117,286	12,034	2,830	104,431	(D)
3341311										
3341311	Made in Industry 3341.....	134,252	118,238	28,536	}	(D)	(D)	(D)	(D)	(D)
3332311	Made in Industry 3332.....	524,317	402,870	91,580		(D)	(D)	(D)	(D)	(D)
3332311	Lead-base and tin-base alloys <sup>4</sup> .....	413,510	410,709	154,805	(D)	(D)	(D)	(D)	16,123	995
3332311	Made in Industry 3332.....	48,854	50,026	13,208	50,026	13,208	...	...	} 16,123	} 995
	Made in Industry 3341.....	293,395	290,195	104,458	(D)	(D)	(D)	(D)		
	All other industries.....	66,809	70,488	37,139	(D)	(D)	(D)	(D)		
3332331	} Antimonial lead.....	244,259	242,594	61,489	(D)	(D)	(D)	(D)	8,412	(D)
3341321										
3332332	Babbitt metal:									
3341331	} Lead-base.....	23,833	22,144	9,837	(D)	(D)	(D)	(D)	(D)	242
3332335										
3341335	Tin-base.....	2,990	2,364	3,959	(D)	(D)	(D)	(D)	(D)	...
3332351	} Solder.....	70,047	70,483	51,518	(D)	(D)	(D)	(D)	2,357	502
3341351										
3332371	} Type metal.....	42,871	39,802	14,682	(D)	(D)	(D)	(D)	(D)	(D)
3341371										
3332398	} Other lead and tin-base alloys.....	29,510	33,322	13,320	(D)	(D)	(D)	(D)	3,489	(D)
3341398										
3341300	Refined lead, nsk.....	xxx	xxx	56,016	xxx	6,016	xxx	...	xxx	xxx
3333---	Primary zinc, total.....	xxx	xxx	232,513	xxx	214,899	xxx	17,614	xxx	xxx
3333111	Zinc residues and other zinc smelter products	438,014	425,564	25,822	210,939	13,448	214,625	12,374	8,620	(D)
33334--	} Refined zinc.....	xxx	xxx	206,691	xxx	201,451	xxx	5,240	xxx	xxx
33414--										
33334pt	Made by primary zinc refiners (Industry 3333).....	xxx	xxx	158,137	}	xxx	201,451	xxx	5,240	xxx
33414pt	Made in Industry 3341.....	xxx	xxx	39,206						
33334pt	All other industries.....	xxx	xxx	9,348						
33414pt										

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total production <sup>2</sup> (gross weight)	Shipments including interplant transfers <sup>1, 2</sup>						Total shipments of products made from materials owned by others <sup>3</sup> (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity (gross weight)	Value	Quantity (gross weight)	Value	Quantity (gross weight)	Value		
	1958									
3333---	Primary zinc—Continued	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)
33334--	Refined zinc—Continued									
3333413	Zinc slab, including remelt zinc.....	863,317	776,667	158,713	752,670	153,639	23,997	5,074	76,334	43,180
33334101	Made in Industry 3341.....	20,323	20,181	4,549	20,181	4,549	...	...	76,334	43,180
3333413	Made in Industry 3333.....	842,994	756,486	154,164	732,489	149,090	23,997	5,074		
33334101	All other industries.....									
3333451	Zinc dust.....	25,792	25,518	7,070	25,518	7,070	...	...	(D)	(D)
33334105	Made in Industry 3341.....	25,792	25,518	7,070	25,518	7,070	...	...	(D)	(D)
3333451	Made in Industry 3333.....									
3333451	All other industries.....									
3333461	Zinc-base alloys.....	148,440	130,347	40,908	129,715	40,742	632	166	11,506	...
33334111	Made in Industry 3333.....	148,440	130,347	40,908	129,715	40,742	632	166	11,506	...
3333461	Made in Industry 3341.....									
33334111	All other industries.....									
3334---	Primary aluminum, total.....	xxx	xxx	1,057,801	xxx	551,404	xxx	506,397	xxx	xxx
3334111	Aluminum-base alloys.....	988,961	1,017,043	507,695	570,880	277,198	446,163	230,497	23,175	5,105
33342011	Made in primary aluminum refineries (Industry 3334).....	481,424	508,189	260,838	156,525	82,463	351,664	178,375	23,175	5,105
33342011	Made in aluminum rolling mills (Industry 3352) <sup>6</sup> .....	185,921	186,791	101,739	101,615	54,343	85,176	47,396		
33341111	Made in Industry 3341.....	312,280	311,359	140,471	302,036	135,745	9,323	4,726		
33341111	All other industries.....	9,336	10,704	4,647	10,704	4,647	...	...	(D)	(D)
3334211	Refined unalloyed aluminum.....	1,102,860	1,129,762	550,106	570,500	274,206	559,262	275,900	(D)	(D)
	Made in Industry 3334.....	1,077,861	1,105,216	539,173	545,954	263,273	559,262	275,900	(D)	(D)
	Made in Industry 3341.....	24,999	24,546	10,933	24,546	10,933	...	...	(D)	(D)
		(Troy ounces)	(Troy ounces)		(Troy ounces)		(Troy ounces)		(Troy ounces)	(Troy ounces)
3339---	Primary nonferrous metals, nec, total.....	xxx	xxx	362,694	xxx	(NA)	xxx	(NA)	xxx	xxx
33395--	Precious metals.....	xxx	xxx	198,587	xxx	(NA)	xxx	(NA)	xxx	xxx
3339515	Made in Industry 3341.....	xxx	xxx	52,956	xxx	(NA)	xxx	(NA)	xxx	xxx
3339515pt	Made in primary nonferrous metals, nec, industry and other industries.....	xxx	xxx	145,631	xxx	(NA)	xxx	(NA)	xxx	xxx
3339511	Unalloyed gold, platinum and silver.....	(NA)	(NA)	182,799	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3339531										
3339551										
3339551										
3339561	Alloys:									
3339571	Silver and silver-base alloys.....	(NA)	(NA)	3,753	(NA)	(NA)	(NA)	(NA)	(NA)	...
3339565	Gold and gold-base alloys.....	(NA)	(NA)	12,035	(NA)	(NA)	(NA)	(NA)	(NA)	...
3339581										
33397--	Other nonferrous metals, smelted or refined..	xxx	xxx	163,326	xxx	(NA)	xxx	(NA)	xxx	xxx
3339711	Made in Industry 3341.....	xxx	xxx	21,798	xxx	(NA)	xxx	(NA)	xxx	xxx
3339711, 21, 51, 61, 71, 79	Made in Industry 3339 and other industries.	xxx	xxx	141,528	xxx	(NA)	xxx	(NA)	xxx	xxx
3339711, 21, 51, 61, 71, 79	Other unalloyed metals (including magnesium, cadmium, nickel, tin, titanium sponge, antimony, cobalt, molybdenum, etc.).....	(NA)	(NA)	113,900	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3339789	Other unrefined nonferrous metals (including metal bearing furnace residues and other metal products which have to be further refined before sale to customers).....									
3339789										

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total production <sup>2</sup> (gross weight)	Shipments including interplant transfers <sup>1,2</sup>						Total shipments of products made from materials owned by others <sup>3</sup> (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity (gross weight)	Value	Quantity (gross weight)	Value	Quantity (gross weight)	Value		
	1958	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)
3339--- 33397-- 33416--	Primary nonferrous metals, nec--Continued Other nonferrous metals, smelted or refined--Continued									
	Metal alloys:									
3339792 3341621 3339793	Magnesium-base alloys.....	(NA)	11,040	9,764	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3341631 3339794 3341641	Other nonferrous metal alloys (including nickel-base alloys).....	xxx	xxx	33,219	xxx	(NA)	xxx	(NA)	xxx	xxx
3339700 3341600	Other nonferrous metals, nec, nsk.....	xxx	xxx	6,443	xxx	(NA)	xxx	(NA)	xxx	xxx
3339000	Primary nonferrous metals, nec, nsk.....	xxx	xxx	781	xxx	(NA)	xxx	(NA)	xxx	xxx
3341---	Secondary smelting, refining, and alloying of nonferrous metals, total.....	xxx	xxx	1,859,159	xxx xxx	(NA)	xxx	(NA)	xxx	xxx
33411-- 33341-- 33520pt	Aluminum-base alloys.....	xxx	xxx	7507,695	xxx	277,198	xxx	230,497	xxx	xxx
33412-- 33312--	Refined copper.....	xxx	xxx	78479,740	xxx	7468,570	xxx	11,170	xxx	xxx
33413-- 33323--	Refined lead.....	xxx	xxx	9280,937	xxx	(D)	xxx	(D)	xxx	xxx
33414-- 33334--	Refined zinc.....	xxx	xxx	10206,691	xxx	201,451	xxx	5,240	xxx	xxx
33415-- 33395--	Refined precious metals.....	xxx	xxx	11198,587	xxx	(NA)	xxx	(NA)	xxx	xxx
33416-- 33397--	Other nonferrous metals, smelted and refined..	xxx	xxx	12163,326	xxx	(NA)	xxx	(NA)	xxx	xxx
3341000	Secondary smelting, refining, and alloying, of nonferrous metals, nsk.....	xxx	xxx	22,183	xxx	(NA)	xxx	(NA)	xxx	xxx
	1954									
3331---	Primary copper, total.....	xxx	xxx	892,285	xxx	(D)	xxx	xxx	xxx	xxx
33311--	Copper smelter products.....	xxx	xxx	369,431	xxx	(D)	xxx	(D)	xxx	xxx
3331111 3331151	Blister or anode copper..... Matte, speiss, flue dust, residues, etc.....	1,037,287 36,765	592,365 35,043	362,886 6,545	179,889 (D)	103,399 (D)	412,476 (D)	259,487 (D)	400,642 ...	45,559 (D)
33312-- 33412--	Refined copper.....	xxx	xxx	522,854	xxx	(D)	xxx	(D)	xxx	xxx
3331211 3341211	Refined unalloyed copper.....	1,458,359	644,090	373,970	(D)	(D)	(D)	(D)	886,952	10,105
3341211 3331211	Made in Industry 3341..... Made in Industry 3331.....	1,458,359	{ 23,043 621,047	17,034 356,936	23,043 (D)	17,034 (D)	... (D)	... (D)	886,952	10,105
3331215 3341231	Copper-base alloys.....	273,311	271,269	148,884	(D)	(D)	(D)	(D)	1,863	1,015
3331215 3341231	Made in Industry 3331..... Made in Industry 3341..... All other industries.....	273,311	{ (13) 263,113 198,156	(13) 142,077 196,807	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	... 1,863 ...	... 1,015 ...
3332---	Primary lead, total.....	xxx	xxx	433,686	xxx	(D)	xxx	(D)	xxx	xxx
33321--	Lead smelter products.....	xxx	xxx	118,926	xxx	(D)	xxx	(D)	xxx	xxx
3332111 3332151	Base bullion..... Matte, speiss, etc.....	505,628 106,089	{ (NA)	118,926	(D)	(D)	(D)	(D)	(D)	{ 222,752 ...
33323-- 33413--	Refined lead.....	(NA)	916,216	314,760	840,028	286,919	76,188	27,841	147,001	54,733
33323pt 33413pt	Made by primary lead refiners (Industry 3332) Made in Industry 3341.....	(NA) (NA)	414,300 417,824	115,691 158,741	414,300 352,181	115,691 135,229	... 65,643	... 23,512	<sup>14</sup> 134,803 12,198	53,700
33323pt 33413pt	All other industries.....	(NA)	84,092	40,328	73,547	35,999	10,545	4,329	( <sup>14</sup> )	1,033
3332311 3341311	Refined unalloyed lead.....	661,890	462,992	129,048	447,289	124,817	15,703	4,231	134,848	52,311
3341311 3332311	Made in Industry 3341..... Made in Industry 3332..... All other industries.....	661,890	{ 97,831 353,523 11,638	27,545 97,981 3,522	83,700 353,523 10,066	23,813 97,981 3,023	14,131 ... 1,572	3,732 ... 499	9,227 125,621 ...	52,311 ...

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total production <sup>2</sup> (gross weight)	Shipments including interplant transfers <sup>1, 2</sup>						Total shipments of products made from materials owned by others <sup>3</sup> (gross weight)	Produced and consumed in the same plant in manufacture of other products <sup>4</sup> (gross weight)	
			Total		Shipments to all other companies		Transfers to other plants of the same company				
			Quantity (gross weight)	Value	Quantity (gross weight)	Value	Quantity (gross weight)	Value			
	1954	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	
3332---	Primary lead--Continued										
33323--	Refined lead--Continued										
33413--											
		Lead-base and tin-base alloys <sup>4</sup> .....	(NA)	453,224	185,712	392,739	162,102	60,485	23,610	12,153	2,422
		Made in Industry 3332.....	(NA)	60,777	17,710	60,777	17,710	...	...	(14)	...
		Made in Industry 3341.....	(NA)	319,993	131,196	268,481	111,416	51,512	19,780	2,971	1,389
	All other industries.....	(NA)	72,454	36,806	63,481	32,976	8,973	3,830	14,918	1,033	
3332331	Antimonial lead.....	257,528	257,921	80,154	(D)	(D)	(D)	(D)	5,476	(D)	
3341321											
	Babbitt metal:										
3332332	Lead-base.....	(NA)	21,588	10,397	(D)	(D)	(D)	(D)	865	(D)	
3341331											
3332335	Tin-base.....	(NA)	2,835	4,643	(D)	(D)	(D)	(D)	...	(D)	
3341335											
3332351	Solder.....	(NA)	76,801	55,780	67,461	48,947	9,340	7,283	5,170	(D)	
3341351											
3332371	Type metal.....	(NA)	94,079	34,738	(D)	(D)	(D)	(D)	642	(D)	
3341371											
3332398	Other lead- and tin-base alloys.....										
3341398											
3333---	Primary zinc, total.....	xxx	xxx	251,469	xxx	(D)	xxx	(D)	xxx	xxx	
3333111	Zinc residues and other zinc smelter products	318,162	322,654	20,481	187,714	10,858	134,940	9,623	(D)	(D)	
33334--	Refined zinc.....	xxx	xxx	230,988	xxx	(D)	xxx	(D)	xxx	xxx	
33414--											
3333413	Zinc slab, including remelt zinc.....	880,507	786,612	177,333	(D)	(D)	(D)	(D)	151,637	(15)	
3341401											
3333413	Made in Industry 3341.....	880,507	1637,839	168,993	(D)	(D)	(D)	(D)	15828	(15)	
3333413			748,773	168,340	724,403	162,984	24,370	5,356	151,629	(15)	
3333413			(18)	(18)	(D)	(D)	(D)	(D)	...	(16)	
3333451	Zinc dust.....	38,671	26,644	7,225	(D)	(D)	(D)	(D)	(D)	10,637	
3341405											
3333461	Zinc-base alloys.....	154,672	151,706	46,430	148,521	45,470	3,185	960	151,427	(15)	
3341411											
3333461	Made in Industry 3333.....		5,028	1,457	5,028	1,457	...	...	...	...	
3333461		154,672	140,926	43,366	(D)	(D)	(D)	(D)	151,427	(15)	
3341411			5,752	1,607	(D)	(D)	(D)	(D)	...	...	
3334---	Primary aluminum, total.....	xxx	xxx	767,512	xxx	428,251	xxx	339,261	xxx	xxx	
3334111	Aluminum-base alloys.....	741,069	708,354	302,758	383,007	163,533	325,347	139,225	32,204	13,893	
3332011											
3341111											
3334111	Made by primary aluminum refiners (Industry 3334).....		336,845	141,037	76,178	32,602	260,667	108,435	...	...	
3341111 pt			236,634	97,587	233,676	96,365	2,958	1,222	2,117	594	
3332011	Made in aluminum rolling mills (Industry 3332) <sup>6</sup> .....	741,069		61,007	73,153	34,566	61,722	29,568	30,087	13,299	
3341111 pt			134,875	3,127							
3334211	Refined unalloyed aluminum.....	1,151,932	1,148,762	464,754	654,767	264,718	493,995	200,036	...	xxx	
3334211		1,143,846	1,140,676	461,311	646,681	261,275	493,995	200,036	...	xxx	
3334211		8,086	8,086	3,443	8,086	3,443	...	...	...	xxx	
		(Troy ounces)	(Troy ounces)		(Troy ounces)		(Troy ounces)		(Troy ounces)	(Troy ounces)	
3339---	Primary nonferrous metals, nec, total.....	xxx	xxx	480,604	xxx	(NA)	xxx	(NA)	xxx	xxx	
33395--	Precious metals.....	(NA)	(NA)	192,760	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
33415--											
3339511	Unalloyed gold, platinum and silver.....	(NA)	(NA)	179,427	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
3341511											
3339531											
3341551											
3339551											
3341531											
	Alloys:										
3339561	Silver and silver-base alloys.....	8,236,968	8,530,754	5,447	(D)	(D)	(D)	(D)	(D)	...	
3341571											
3339565	Gold and gold-base alloys.....	4,936,966	306,084	7,886	(D)	(D)	(D)	(D)	(D)	...	
3341581											

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total production <sup>2</sup> (gross weight)	Shipments including interplant transfers <sup>1, 2</sup>						Total shipments of products made from materials owned by others <sup>3</sup> (gross weight)	Produced and consumed in the same plant in manufacture of other products (gross weight)	
			Total		Shipments to all other companies		Transfers to other plants of the same company				
			Quantity (gross weight)	Value	Quantity (gross weight)	Value	Quantity (gross weight)	Value			
	1954	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	
3339---	Primary nonferrous metals, nec--Continued										
33397--	} Other nonferrous metals, smelted or refined..	xxx	xxx	287,844	xxx	(NA)	xxx	(NA)	xxx	xxx	
33416--											
3339711											
3341661											
3339721											
3341651	} Other unalloyed metals (including magnesium, cadmium, nickel, tin, titanium sponge, antimony, cobalt, molybdenum, etc.).....	xxx	xxx	216,577	xxx	205,544	xxx	11,033	xxx	xxx	
3339751											
3341669											
3339761											
3341671											
3339771	} Other unrefined nonferrous metals (including metal bearing furnace residues and other metal products which have to be further refined before sale to customers).....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
3341681											
3339779											
3341689											
3339789											
3341698	} Metal alloys:	(NA)	12,683	8,030	(D)	(D)	(D)	(D)	...	(D)	
3339792											
3341621											
3339793											
3341631											
3339794	} Other nonferrous metal alloys (including nickel-base alloys).....	(NA)	(NA)	63,237	(NA)	57,283	(NA)	5,954	(NA)	(NA)	
3341641											
3341---	Secondary smelting and refining and alloying of nonferrous metals, total.....	xxx	xxx	1,851,964	xxx	(NA)	xxx	(NA)	xxx	xxx	
33411--	} Aluminum-base alloys.....	741,069	708,354	7302,758	383,007	163,533	325,347	139,225	32,204	13,893	
33341--											
33520pt											
33412--			xxx	xxx	<sup>8</sup> 522,854	xxx	(D)	xxx	(D)	xxx	xxx
33312--											
33413--	} Refined copper.....	xxx	xxx	<sup>9</sup> 314,760	xxx	286,919	xxx	27,841	xxx	xxx	
33323--											
33414--			xxx	xxx	<sup>10</sup> 230,988	xxx	(D)	xxx	(D)	xxx	xxx
33334--											
33415--			xxx	xxx	<sup>11</sup> 192,760	xxx	(D)	xxx	(D)	xxx	xxx
33395--	} Refined precious metals.....	xxx	xxx	<sup>12</sup> 287,844	xxx	(NA)	xxx	(NA)	xxx	xxx	
33416--											
33397--											
33416--											
33397--											
33416--	} Other nonferrous metals, smelted and refined..	xxx	xxx	<sup>12</sup> 287,844	xxx	(NA)	xxx	(NA)	xxx	xxx	
33397--											
33416--											
33397--											
33416--											

\*Revised. <sup>1</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Excluding toll shipments.

<sup>2</sup>Includes quantities produced by toll processors but shipped for the account of the company owning the material. Where data are shown separately for the various industries producing these products such shipments are included in the industry for the establishment owning the material. However, production data are included in the industry of the toll processor.

<sup>3</sup>Includes shipments to other smelters and refiners, shipments to consumers and to some nonmanufacturing companies which sell direct to consumers.

<sup>4</sup>Includes antimonial lead, lead-base and tin-base babbitt metal, solder, type metal and other lead- and tin-base alloys. These data are shown as a means for providing separate figures for the primary lead, secondary nonferrous metals, and other industries.

<sup>5</sup>Of this amount, \$4,452 thousand was reported by Industry 3341, Secondary Nonferrous Metals, and \$1,564 thousand by other industries.

<sup>6</sup>Most of the aluminum-base alloys produced and shipped by aluminum rolling mills represents duplication of tonnages reported by the primary aluminum industry in that the ingot produced by the rolling mills is made from pig produced in primary aluminum plants.

<sup>7</sup>Aluminum-base alloys are primary to the primary aluminum industry, aluminum rolling mills, and secondary smelters and refiners. Detail is shown under product class 33341.

<sup>8</sup>Refined copper is primary to both primary copper and secondary smelters and refiners. Detail is shown under product class 33312.

<sup>9</sup>Refined lead is primary to both primary lead and secondary smelters and refiners. Detail is shown under product class 33323.

<sup>10</sup>Refined zinc is primary to both primary zinc and secondary smelters and refiners. Detail is shown under product class 33334.

<sup>11</sup>Refined precious metals are primary to both primary nonferrous metals, nec, and secondary smelters and refiners. Detail is shown under product class 33395.

<sup>12</sup>Other nonferrous metals, smelted or refined, are primary to both primary nonferrous metals, nec., and secondary smelters and refiners. Detail is shown under product class 33397.

<sup>13</sup>Data for Industry 3331 are included with "All other industries."

<sup>14</sup>Data for Industry 3332 and "All other industries" have been combined.

<sup>15</sup>Included with shipments of products made from materials owned by others.

<sup>16</sup>Data for "All other industries" have been combined with Industry 3341.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Aluminum-base alloys (33341, 33411 and 33520 pt):</u>		<u>Aluminum-base alloys (33341, 33411 and 33520 pt)--</u>	1958 <sup>1</sup>	<u>Refined unalloyed aluminum (33342):</u>	
United States, total:		Continued		United States, total:	
1958.....	507,695			1958.....	550,106
1957.....	488,599			1957.....	573,415
1956.....	562,870	East North Central.....	137,920	1956.....	494,731
1955.....	467,048			1955.....	516,318
1954.....	302,758	Ohio.....	76,666	1954.....	464,754
	1958 <sup>1</sup>	Illinois.....	25,354	1947.....	116,492
New England.....	2,385	West North Central.....	11,170		1958 <sup>1</sup>
		South Atlantic.....	33,601		
Middle Atlantic.....	49,858	East South Central.....	26,877		
		West South Central.....	128,432		
New York.....	25,727	West.....	117,452	Northeast and	
New Jersey.....	7,499	California.....	17,917	North Central.....	38,831
Pennsylvania.....	16,632			South.....	359,108
				West.....	152,167

Note: The figures shown for 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported but the exact figures are withheld to avoid disclosure of individual company figures: 33341, 33411, and 33520 pt., Connecticut, Indiana, Michigan, Missouri, Nebraska, Kansas, Delaware, Virginia, West Virginia, North Carolina, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Texas, Montana, Washington, and Oregon; 33342, New York, Ohio, Indiana, Illinois, West Virginia, North Carolina, Tennessee, Alabama, Arkansas, Louisiana, Texas, Montana, Washington, and Oregon.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3331—PRIMARY COPPER <sup>1</sup>					
	Materials, containers and supplies, total.....		xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )
102111	Copper:					
	Ores, concentrates and precipitates <sup>3</sup> .....	Gross weight short tons....	6,537,520	297,046	6,447,450	311,042
333117	Blister or anode copper <sup>4</sup> .....	Short tons.....	512,086	256,134	483,710	309,093
941021	Copper and copper-base alloy scrap (purchased scrap only).....	do.....	13,742	5,072	51,871	27,382
970000	All other materials, containers and supplies.....	do.....	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )
	INDUSTRY 3332—PRIMARY LEAD <sup>1</sup>					
	Materials, containers and supplies, total.....		xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )
103211	Lead:					
	Ores and concentrates.....	Gross weight short tons....	980,541	121,644	1,063,712	142,128
970000	All other materials, containers and supplies.....	do.....	xxx	( <sup>2</sup> )	xxx	( <sup>2</sup> )
	INDUSTRY 3333—PRIMARY ZINC <sup>1</sup>					
	Materials, containers and supplies, total.....		xxx	113,813	xxx	123,199
103311	Zinc:					
	Ores and concentrates.....	Gross weight short tons....	1,441,946	86,156	1,463,334	93,430
941051	Zinc and zinc-base alloy scrap including drosses and skimmings (purchased scrap only).....	Short tons.....	38,149	4,417	39,605	4,542
970000	All other materials, containers and supplies.....	do.....	xxx	23,240	xxx	25,227
	INDUSTRY 3334—PRIMARY ALUMINUM <sup>1</sup>					
	Materials, containers and supplies, total.....		xxx	319,639	xxx	275,631
281915	Alumina.....	Gross weight short tons....	2,978,027	216,759	2,788,321	176,317
333421	Refined aluminum.....	Short tons.....	2,981	1,438	1,276	607
941031	Aluminum and aluminum-base alloy scrap (purchased scrap only).....	do.....	xxx	101,442 {	1,141	436
970000	All other materials, containers and supplies.....	do.....	xxx		xxx	98,271
	INDUSTRY 3341—SECONDARY NONFERROUS METALS <sup>1</sup>					
	Materials, containers and supplies, total.....		xxx	495,744	xxx	570,663
333421	Aluminum:					
	Refined aluminum.....	Short tons.....	20,931	10,199	14,267	5,954
941031	Aluminum and aluminum-base alloy scrap (purchased scrap only).....	do.....	308,666	95,858	232,300	64,146
333113	Copper:					
	Refined copper.....	do.....	3,729	2,030	6,725	3,814
941021	Copper and copper-base alloy scrap (purchased scrap only).....	do.....	346,565	123,370	398,069	149,896
333213	Lead:					
	Refined lead.....	do.....	25,446	5,980	25,086	6,789
941061	Lead and lead-base alloy scrap (purchased scrap only).....	do.....	376,711	70,498	435,957	88,982
333521	Refined magnesium.....	do.....	1,191	766	(NA)	844
333911	Tin:					
	Refined tin.....	do.....	8,945	17,012	9,267	17,234
941071	Tin-plate scrap (purchased scrap only).....	do.....	501,288	11,832	559,203	10,260
333315	Zinc:					
	Refined zinc.....	do.....	65,346	14,284	114,486	27,422
941051	Zinc and zinc-base alloy scrap, including drosses and skimmings (purchased scrap only).....	do.....	79,667	10,759	83,447	9,615
970000	All other materials, containers and supplies.....	do.....	xxx	133,156	xxx	185,707

NA Not available.

<sup>1</sup>Smelting and refining establishments were instructed to include in their reports the quantity and cost of purchased materials which they processed or furnished to others for toll processing, but to exclude materials processed on a toll basis for others. Accordingly, the data shown in this table excludes considerable quantities of materials consumed by establishments in these industries in the production of the products shown in table 6A.

<sup>2</sup>Total cost of materials, etc. are omitted for these industries because of extensive duplication. This duplication arises because the products of some establishments are used by other establishments in the same industry.

<sup>3</sup>Includes leaching ores received in crude form from mines by leaching plants operated in conjunction with smelting and refining operations. Such ores represent about half the total quantity of ores, concentrates and precipitates consumed but less than 10 percent of the value of these materials.

<sup>4</sup>Excludes materials consumed by establishments producing copper by leaching or from Lake Superior ores as no distinct blister stage exists in the production at these establishments.



# Nonferrous Metal Mill and Foundry Products

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3351--Rolling, Drawing, and Extruding of Copper
- 3352--Rolling, Drawing, and Extruding of Aluminum
- 3356--Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum
- 3357--Drawing and Insulating of Nonferrous Wire
- 3361--Aluminum Castings
- 3362--Brass, Bronze, Copper, Copper Base Alloy Castings
- 3369--Nonferrous Castings, Not Elsewhere Classified

## 3351--Rolling, Drawing, and Extruding of Copper

This industry comprises establishments primarily engaged in rolling, drawing and extruding copper, brass, bronze and other copper-base alloy basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in Industry 3341. For a detailed list of products of Industry 3351, refer to table 6A, product codes 3351111 to 3351237.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

In the previous classification system, establishments engaged in the production of electrical copper and copper-base alloy wire were classified in Industry 3351 if the establishment had its own rod mill. In the 1957 S.I.C. edition such establishments are included in Industry 3357, Drawing and Insulating of Nonferrous Wire. Also, in the previous classification system both electrical and mechanical copper and copper-base alloy wire were considered primary to both Industry 3351 and Industry 3392, Wire Drawing. In the revised system, mechanical wire is treated as primary to Industry 3351 and

electrical wire is treated as primary to Industry 3357. As a result of this change a few establishments previously included in Industry 3392, Wire Drawing, are now included in Industry 3351.

Value of shipments and other receipts of the Copper Rolling and Drawing Industry in 1958 totaled \$1,210 million. This included shipments of brass mill products (primary products), valued at \$976 million, shipments of other products (secondary products) valued at \$134 million, and miscellaneous receipts (mainly resales and receipts for toll processing) of \$100 million.

This industry's shipments of brass mill products (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included shipments of aluminum plate and sheet, \$20 million; and rolled aluminum rod, bar and structural shapes, \$11 million.

Industry 3351 shipments of brass mill products (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$1,034 million shipped by all industries.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product class of Industry 3351, copper and copper-base alloy wire, bare and tinned for purposes other than electrical transmission, 77 percent.

## 3352--Rolling, Drawing and Extruding of Aluminum

This industry comprises establishments primarily engaged in rolling, drawing and extruding aluminum and aluminum-base alloy basic shapes such as plate, sheet, bar, tubing and foil. For a detailed list of products of Industry 3352, refer to table 6A, product codes 3352111 to 3352011.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Establishments producing plain aluminum foil (foil mills) which



were previously included in Industry 3497, Metal Foil, are now included in Industry 3352.

Value of shipments and other receipts of the Aluminum Rolling and Drawing Industry in 1958 totaled \$1,562 million. This included shipments of rolled, drawn and extruded aluminum (primary products), valued at \$1,361 million, shipments of other products (secondary products) valued at \$131 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$70 million.

This industry's shipments of rolled, drawn and extruded aluminum (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included metal foil and leaf \$38 million; and sheet metal roofing and siding and roof drainage equipment, \$28 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 48 percent of the total industry shipments are represented by plants specializing in aluminum sheet and plate (including foil stock); and 23 percent in extruded aluminum rod, bar and other extruded shapes.

Industry 3352 shipments of rolled, drawn and extruded aluminum (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$1,472 million shipped by all industries.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product class of Industry 3352, e.g., aluminum and aluminum-base alloy wire, 46 percent.

#### 3356--Rolling, Drawing and Extruding of Nonferrous Metals, Except Copper and Aluminum

This industry comprises establishments primarily engaged in rolling, drawing and extruding nonferrous metals other than copper (Industry 3351), and aluminum (Industry 3352). The products of this industry are produced in the form of basic shapes, such as plate, sheet, strip, bar and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in Industry 3341; in manufacturing gold, silver, tin and other foils, except aluminum, in Industry 3497; and aluminum foil in Industry 3352. For a detailed list of products of Industry 3356, refer to table 6A, product codes 3356041 to 3356091.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code

number 3356 from code number 3359 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Rolling and Drawing, N.E.C., Industry in 1958 totaled \$486 million. This included shipments of rolled, drawn and extruded nonferrous metals, n.e.c. (primary products), valued at \$353 million, shipments of other products (secondary products) valued at \$105 million, and miscellaneous receipts (mainly resales) of \$28 million.

This industry's shipments of rolled, drawn and extruded nonferrous metals, n.e.c. (primary products) in 1958 represented 77 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3356 shipments of rolled, drawn and extruded nonferrous metals, n.e.c. (primary products) in 1958 represented 82 percent (coverage ratio) of these products valued at \$428 million shipped by all industries.

#### 3357--Drawing and Insulating of Nonferrous Wire

This industry comprises establishments primarily engaged in drawing, drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods or wire. For a detailed list of products of Industry 3357 refer to table 6A, product codes 3357111 to 3357998.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. In the previous classification system, establishments engaged in drawing, or drawing and insulating wire and cable of nonferrous metals were included in Industry 3392, Wire Drawing, along with establishments drawing steel wire. Establishments insulating wire and cable from purchased wire were classified in Industry 3631, Insulated Wire and Cable. Establishments engaged in the production of electrical copper and copper-base alloy wire were classified in Industry 3351 if the establishment had its own wire rod mill. In the 1957 S.I.C. edition, each of the three types of establishments described above are included in this industry.

Since this industry includes both wire drawing (including wire redrawing) establishments, and establishments insulating wire and cable from purchased wire some duplication of value exists in both the value of shipments and cost of materials, etc., for the industry. However, as shown in the data on materials consumed in table 7 for copper and aluminum wire for redrawing, and



copper and aluminum bare wire, such duplication approximates \$125 million, less than 15 percent of the total cost of materials, etc., for the industry.

Value of shipments and other receipts of the Nonferrous Wire Drawing, Etc., Industry in 1958 totaled \$1,532 million. This included shipments of drawn and insulated nonferrous wire (primary products) valued at \$1,405 million, shipments of other products (secondary products) valued at \$88 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$39 million.

This industry's shipments of drawn and insulated nonferrous wire (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included steel wire, rope, cable, strand, and woven wire products (except fencing and fence gates), \$10 million; and electrical conduit and conduit fittings, \$7 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 34 percent of the total industry shipments are represented by plants specializing in product class 33579, Other insulated wire and cable, and 26 percent in product class 33574, Communication wire and cable.

Industry 3357 shipments of drawn and insulated nonferrous wire (primary products) in 1958 represented 84 percent (coverage ratio) of these products valued at \$1,681 million shipped by all industries.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of Industry 3357, e.g., aluminum and aluminum-base alloy wire and cable (including ACSR), 48 percent; copper and copper-base alloy wire for electrical transmission, 70 percent; other nonferrous metal wire (except insulated) 37 percent; communication wire and cable, 99 percent; appliance wire and cord and flexible cord sets, 52 percent; power wire and cable, 99 percent.

#### Nonferrous Foundries

This group is comprised of three foundry industries, namely Industry 3361, Aluminum Castings, Industry 3362, Brass, Bronze, Copper Castings, and Industry 3369, Nonferrous Castings, N.E.C. These foundry industries comprise establishments primarily engaged in manufacturing aluminum castings, including cast aluminum cooking utensils (3361), brass, bronze, and copper castings including unmachined bearings

and bushings (3362), and other nonferrous castings (3369).

For these industries, captive production (that is, the tonnage of castings produced for incorporation into the final product of the plant or company) is a particularly important factor. Distinction is made between rough castings and castings which are machined or further processed and incorporated into other products. The removal of gates, risers, sprues, and tumbling, dipping, and sand blasting do not constitute machining. Plants primarily engaged in manufacturing castings are included in the foundry industries; plants primarily engaged in further processing castings into parts for metal products or machinery are classified in other major groups.

For the 1958 Census of Manufactures separate establishment reports were received from all commercial (jobbing) foundries and from those captive foundries which were operated as separate establishments by the reporting companies. These two groups comprise the types of establishments included in Industries 3361, 3362, and 3369. However, where the captive foundry operation was completely integrated with the operations of the entire plant, no separate establishment report was received for the foundry activity. In these instances data were obtained on the tonnage of castings produced and consumed and on the number of employees usually engaged in the captive foundry operation. However, establishments with such foundry departments were classified on the basis of the plant's final product and accordingly, the general statistics on employment, payrolls, cost of materials, etc., are included in the data for such industries as Plumbing Fittings, Brass Goods (3432) and Valves and Pipe Fittings (3494), etc.

The data shown in table 6A for nonferrous castings represent total shipments and transfers including the quantity of castings shipped by establishments classified in industries other than the foundry industries (3361, 3362, and 3369). For those industries where captive foundry departments are particularly important, data on the tonnage of castings produced and consumed are shown in table 7 of the individual industry reports covering the specific industries.

During 1958, the Bureau of the Census also collected and published monthly data on shipments of nonferrous castings. These monthly data were derived from a sample survey and were published in Current Industrial Reports (previously identified as Facts For Industry) Series M33E, Nonferrous Castings. The M33E series includes data for both commercial and captive foundry production and shows separately shipments "for sale" and shipments "for own use."



It should be specifically noted that the quantity and value data on shipments of nonferrous castings in table 6A do not include the quantity and value of the large quantity of castings produced by establishments classified in other industries which produce castings only for incorporation into their own products or for internal use but not for sale as such.

#### 3361--Aluminum Castings

This industry comprises establishments primarily engaged in manufacturing castings and die castings of aluminum. For a detailed list of products of Industry 3361, refer to table 6A, product codes 3361011 to 3361075.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual represent a new industry, the products of which were previously included in Industry 3361, Nonferrous Foundries.

Value of shipments and other receipts of the Aluminum Castings Industry in 1958 totaled \$422 million. This included shipments of aluminum castings (primary products) valued at \$325 million, shipments of other products (secondary products) valued at \$86 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$11 million.

This industry's shipments of aluminum castings (primary products) in 1958 represented 79 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of nonferrous castings, n.e.c., \$35 million.

Industry 3361 shipments of aluminum castings (primary products) in 1958 represented 81 percent (coverage ratio) of these products valued at \$400 million shipped by all industries. Other industries shipping aluminum castings (primary products) consisted mainly of Industry 3369, Nonferrous Castings, N.E.C., \$28 million; and Industry 3362, Brass, Bronze, and Copper Castings, \$15 million. This coverage ratio measures only the coverage of this industry in terms of the value of aluminum castings reported in the Census. Accordingly, these ratios are limited to castings produced for sale and for interplant transfer and exclude castings produced by establishments classified in other industries which produce castings only for their own use.

#### 3362--Brass, Bronze, Copper, Copper-Base Alloy Castings

This industry comprises establishments primarily engaged in manufacturing castings and die castings of copper and copper base alloy. For a detailed list of products of Industry 3362, refer to table 6A, product codes 3362011 to 3362071.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual represent a new industry, the products of which were previously included in Industry 3361, Nonferrous Foundries.

In addition, railroad car journal bearings, formerly classified in Industry 3361 are now considered primary to Industry 3566, Power Transmission Equipment.

Value of shipments and other receipts of the Brass, Bronze, and Copper Castings Industry in 1958 totaled \$221 million. This included shipments of copper and copper-base alloy castings (primary products), valued at \$180 million, shipments of other products (secondary products) valued at \$33 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$7 million.

This industry's shipments of copper and copper-base alloy castings (primary products) in 1958 represented 85 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of aluminum and aluminum-base alloy castings, \$15 million.

Industry 3362 shipments of copper and copper-base alloy castings (primary products) in 1958 represented 81 percent (coverage ratio) of these products valued at \$223 million shipped by all industries. Other industries shipping copper and copper-base alloy castings (primary products) consisted mainly of Industry 3361, Aluminum Castings, \$13 million; and Industry 3321, Gray Iron Foundries, \$7 million. This coverage ratio measures only the coverage of this industry in terms of the value of copper and copper-base alloy castings reported in the Census. Accordingly, these ratios are limited to castings produced for sale and for interplant transfer, and exclude castings produced by establishments classified in other industries which produce castings only for their own use.

#### 3369--Nonferrous Castings, N.E.C.

This industry comprises establishments primarily engaged in manufacturing castings and die castings of nonferrous materials except aluminum, copper and copper-base alloys. For a detailed list of products of Industry 3369, refer to table 6A, product codes 3369011 to 3369098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual represent a new industry, the products of which were previously included in Industry 3361, Nonferrous Foundries.

Value of shipments and other receipts of the Nonferrous Castings, N.E.C., Industry in 1958 totaled \$235 million. This included shipments



of nonferrous castings, n.e.c. (primary products), valued at \$180 million, shipments of other products (secondary products) valued at \$50 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$5 million.

This industry's shipments of nonferrous castings, n.e.c. (primary products) in 1958 represented 78 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of aluminum and aluminum-base alloy castings, \$28 million.

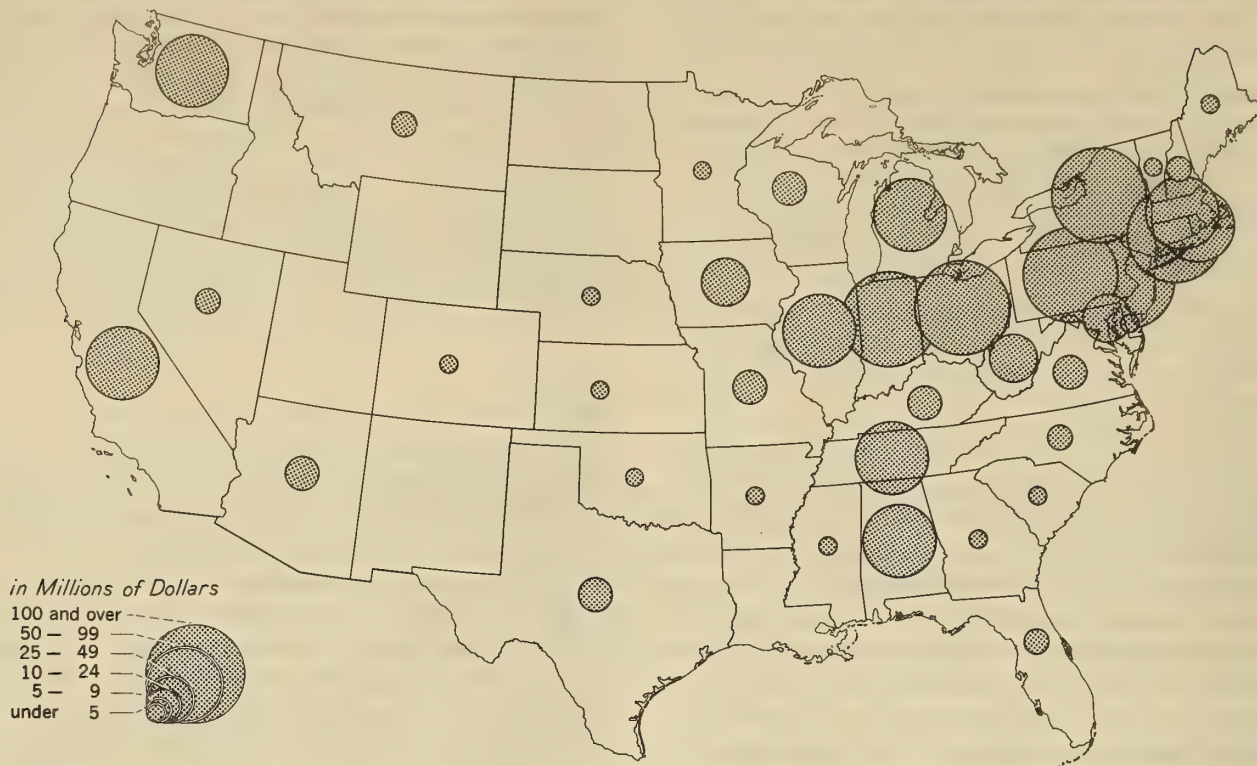
Industry 3369 shipments of nonferrous castings, n.e.c. (primary products) in 1958

represented 77 percent (coverage ratio) of these products valued at \$233 million shipped by all industries. Other industries shipping nonferrous castings, n.e.c. (primary products) consisted mainly of Industry 3361, Aluminum Castings, \$35 million. This coverage ratio measures only the coverage of this industry in terms of the value of the nonferrous castings, n.e.c. reported in the Census. Accordingly, these ratios are limited to castings produced for sale and for interplant transfer and exclude castings produced by establishments classified in other industries which produce castings only for their own use.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## ROLLING, DRAWING AND EXTRUDING OF NONFERROUS METALS: SIC 335

Value Added by Manufacture by State: 1958

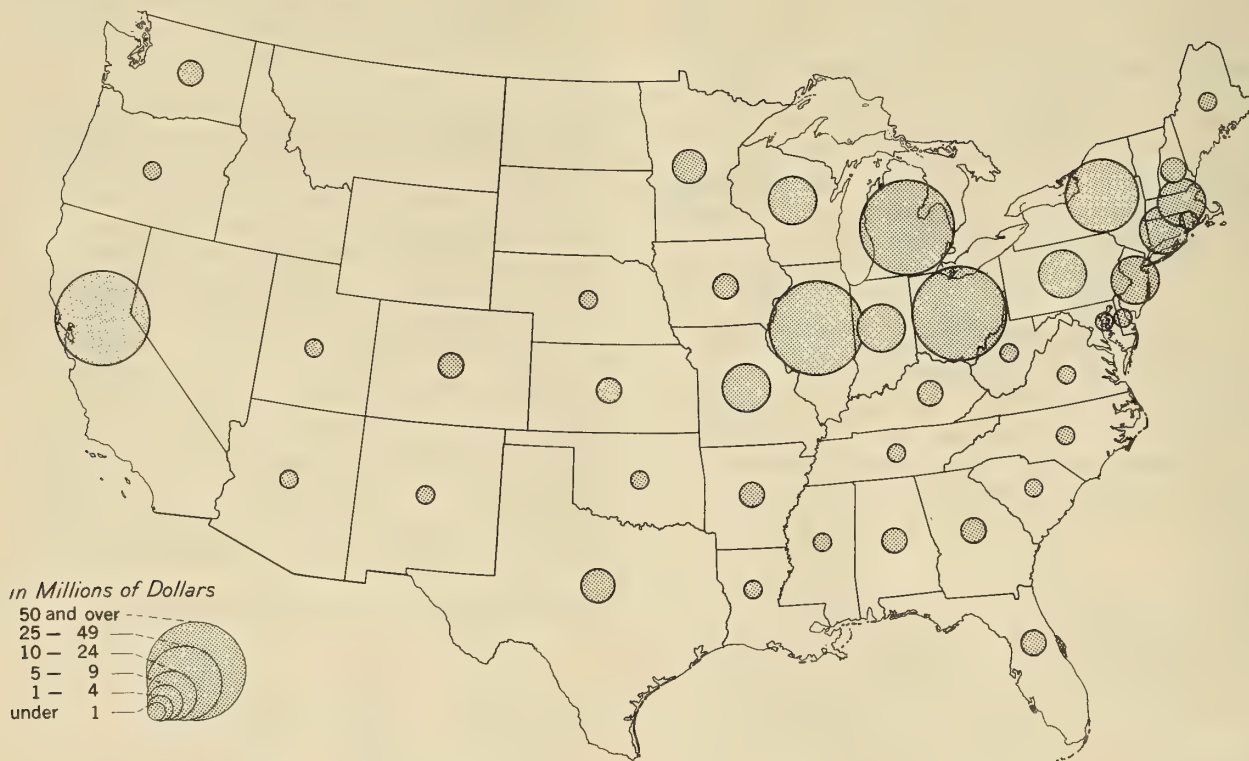


Includes Industries 3351, 3352, 3356 and 3357. See Table 2.

Bureau of the Census M-58-D335

## NONFERROUS FOUNDRIES: SIC 336

Value Added by Manufacture by State: 1958



Includes Industries 3361, 3362 and 3369. See Table 2.

Bureau of the Census M-58-D336



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3331	Copper rolling and drawing:														
	1958 (new).....	75	105	89	40,329	222,259	31,792	63,291	165,367	445,371	775,650	1,209,926	30,617	88	94
	1958 (old) <sup>8</sup> .....	(NA)	103	90	41,283	227,697	32,641	65,116	170,205	458,328	819,162	1,267,722	30,757	89	89
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	42,559	224,258	34,148	66,279	167,647	459,292	920,696	1,385,642	42,123	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	45,485	239,589	36,760	75,622	182,937	522,448	1,368,856	1,876,612	28,964	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	45,009	231,737	36,618	77,566	178,686	513,129	1,288,475	1,788,036	32,874	(NA)	(NA)
	1954.....	64	89	77	41,906	195,225	34,072	68,017	147,874	422,916	912,290	1,334,360	30,540	95	90
	1947.....	56	79	72	53,891	166,148	45,946	93,741	134,019	302,687	761,346	1,064,033	21,617	(NA)	92
	1939 <sup>10</sup> .....	(NA)	57	(NA)	(NA)	(NA)	33,597	(NA)	48,288	135,642	214,503	350,145	(NA)	(NA)	(NA)
3352	Aluminum rolling and drawing:														
	1958 (new).....	145	185	129	46,879	272,168	36,443	75,323	199,643	537,086	1,057,370	1,562,381	114,195	91	92
	1958 (old) <sup>8</sup> .....	(NA)	168	112	42,375	246,067	32,979	68,114	180,502	475,331	930,844	1,375,501	109,657	87	91
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	44,458	235,851	34,645	69,529	171,134	451,393	892,350	1,335,676	178,265	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	44,953	228,898	36,227	74,764	172,751	534,694	896,609	1,366,128	121,852	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	42,924	204,847	35,235	72,841	158,403	485,217	794,200	1,261,721	35,743	(NA)	(NA)
	1954.....	77	94	70	36,803	164,938	29,795	60,652	125,617	352,349	537,180	877,033	21,402	92	93
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	39,064	165,888	32,292	64,562	127,278	366,830	591,003	957,833	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	31,483	128,143	25,749	53,471	99,506	283,093	444,272	929,365	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	29,268	106,144	23,910	49,051	82,313	255,188	404,455	659,643	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	27,303	90,328	22,693	46,781	71,719	208,045	359,873	567,918	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	22,116	67,721	17,542	34,662	50,445	143,669	252,069	345,738	(NA)	(NA)	(NA)
	1947.....	15	29	27	27,365	73,665	22,786	45,334	57,544	150,697	254,069	404,766	9,897	(NA)	(NA)
	1939 <sup>10</sup> .....	(NA)	13	(NA)	(NA)	(NA)	9,926	(NA)	14,848	34,331	81,012	115,343	(NA)	(NA)	(NA)
3356 (old SIC 3359)	Rolling and drawing, nec:														
	1958.....	120	143	73	16,571	94,713	11,467	22,542	57,446	174,633	306,634	486,308	14,984	77	82
	1954 <sup>11</sup> .....	(NA)	105	67	11,954	57,481	8,798	18,277	36,788	126,018	278,275	403,359	13,564	(NA)	(NA)
	1953.....	(NA)	(NA)	(NA)	12,272	58,535	9,470	20,720	41,141	132,190	(11)	(11)	(NA)	(NA)	(NA)
	1952.....	(NA)	(NA)	(NA)	9,784	45,701	7,539	16,173	31,864	98,291	(11)	(11)	(NA)	(NA)	(NA)
	1951.....	(NA)	(NA)	(NA)	9,101	40,686	7,199	15,386	28,901	100,352	(11)	(11)	(NA)	(NA)	(NA)
	1950.....	(NA)	(NA)	(NA)	9,241	36,908	7,563	16,373	27,164	73,787	(11)	(11)	(NA)	(NA)	(NA)
	1949.....	(NA)	(NA)	(NA)	6,224	22,780	4,704	9,349	14,580	48,781	(11)	(11)	(NA)	(NA)	(NA)
	1947.....	41	54	(NA)	7,568	24,304	6,064	12,443	18,094	49,979	(11)	(11)	(NA)	(NA)	94
	1939 <sup>10</sup> .....	(NA)	31	(NA)	(NA)	(NA)	2,786	(NA)	4,398	15,224	(11)	(11)	(NA)	(NA)	(NA)
3357	Nonferrous wire drawing, etc.:														
	1958.....	217	278	182	56,493	296,157	43,523	88,973	209,932	568,911	969,254	1,532,508	36,226	94	84
3361	Aluminum castings:														
	1958.....	934	955	283	30,045	158,915	24,626	48,683	119,166	225,686	198,560	422,041	12,220	79	81
3362	Brass, bronze, copper, castings:														
	1958.....	647	665	209	14,861	70,512	12,294	23,538	52,786	109,744	111,609	220,955	5,103	85	81
3369	Nonferrous castings, nec:														
	1958.....	337	345	136	17,253	89,239	14,330	27,617	66,339	135,311	98,678	234,649	5,013	78	77
Old SIC 3361	Nonferrous foundries:														
	1958 <sup>12</sup> .....	(NA)	1,965	628	62,159	318,666	51,250	99,838	238,291	470,741	408,847	877,645	22,336	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	78,328	379,506	66,424	132,187	294,301	577,240	502,766	1,080,396	39,025	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	82,084	393,563	69,900	141,448	305,518	608,181	578,225	1,174,240	38,110	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	81,950	377,569	70,232	141,128	295,741	584,846	554,202	1,126,816	26,011	(NA)	(NA)
	1954.....	1,863	1,920	611	73,487	327,906	61,573	124,041	251,374	472,431	405,640	884,576	24,779	90	92
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	83,703	365,263	71,225	147,492	294,570	572,377	480,511	1,052,888	31,499	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	74,154	308,760	63,107	130,347	248,034	466,939	435,566	902,416	21,777	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	71,498	280,672	61,413	125,288	223,728	437,592	463,455	901,047	23,093	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	65,182	231,180	55,615	111,959	183,129	371,634	336,865	708,499	16,197	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	56,504	189,303	47,402	97,074	144,355	280,715	228,073	505,017	11,829	(NA)	(NA)
	1947.....	1,675	1,724	551	66,798	203,314	58,609	119,141	166,697	300,628	272,562	573,190	19,017	93	92
	1939 <sup>10</sup> .....	(NA)	776	(NA)	(NA)	(NA)	23,362	(NA)	32,444	67,590	65,092	132,682	(NA)	(NA)	(NA)

NA Not available. <sup>12</sup>Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August, and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

Footnotes continued on next page.



## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for Table 1-33D

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value added (\$1,000)	Industry Code	Value added (\$1,000)
3351	420,604	3356	107,006
3352	339,717	3361	476,969

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of materials, etc. (\$1,000)	Industry Code	Cost of materials, etc. (\$1,000)
	1958		1954
3351	727,119	3361	194,005
3352	1,029,348	3362	108,732
3356	290,611	3369	96,927
3357	955,082		
			396,821

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of shipments (\$1,000)	Industry Code	Value of shipments (\$1,000)
	1958		1954
3351	1,160,126	3361	416,866
3352	1,533,270	3362	217,493
3356	467,639	3369	232,607
3357			
			873,790

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.) Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>9</sup>The figures for 1949-1953 and 1955 and 1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>Data for 1954 have been revised to include establishments originally classified in other industries. Accordingly, data for 1953 and earlier years are not comparable with 1954 and 1958. Selected data for 1954 and 1958 on a basis comparable with earlier years are as follows: number of establishments, 98; total employment, 10,381; and unadjusted value added by manufacture, \$99,907 thousand. Since the effect of this revision has more significance on the cost of materials and value of shipments, data for these items are not shown for 1953 and earlier years.

<sup>12</sup>The three industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3351—Copper rolling and drawing.....	105	89	40,329	445,371	xxx	xxx	xxx	xxx
Old Industry 3351—Copper rolling and drawing.....	98	85	39,997	441,150	103	90	41,283	458,328
Old Industry 3392—Wire drawing.....	7	4	332	4,221	207	161	54,230	566,796
New Industry 3352—Aluminum rolling and drawing.....	185	129	46,879	537,086	xxx	xxx	xxx	xxx
Old Industry 3352—Aluminum rolling and drawing.....	168	112	42,375	475,331	168	112	42,375	475,331
Old Industry 3497—Metal foil.....	17	17	4,504	61,755	82	47	7,696	96,892
New Industry 3357—Nonferrous wire drawing, etc.....	278	182	56,493	568,911	xxx	xxx	xxx	xxx
Old Industry 3631—Insulated wire and cable.....	172	91	17,105	154,248	172	91	17,105	154,248
Old Industry 3392—Wire drawing.....	98	86	38,093	397,392	207	161	54,230	566,796
Old Industry 3351—Copper rolling and drawing.....	5	5	1,286	17,178	103	90	41,283	458,328
Other industries <sup>2</sup> .....	3	...	9	93	xxx	xxx	xxx	xxx

<sup>1</sup>Revised.

<sup>2</sup>These totals may represent revisions from the preliminary figures previously published for these industries.

<sup>3</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product classification to conform to the new SIC, and classification errors for small establishments that were not corrected since they were not statistically significant.



NONFERROUS METAL MILL AND FOUNDRY PRODUCTS

33D-9

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3351	Copper rolling and drawing, total.....	105	89	40,329	222,259	31,792	63,291	165,367	445,371	1,209,926	30,617	(2)	(2)	(2)
	New England.....	31	28	13,653	75,920	11,084	21,578	58,066	142,116	349,075	11,522	(2)	(2)	(2)
	Connecticut.....	24	23	11,942	66,968	9,755	18,990	51,574	124,971	306,444	11,409	(2)	(2)	(2)
	Middle Atlantic...	35	26	11,146	58,480	8,533	17,056	42,415	118,458	345,552	6,062	(2)	(2)	(2)
	Pennsylvania.....	15	12	5,122	25,329	3,635	7,260	16,723	46,538	99,436	1,543	(2)	(2)	(2)
	North Central, South and West...	39	35	15,530	87,859	12,175	24,657	64,886	184,797	515,299	13,033	(2)	(2)	(2)
	Ohio.....	6	6	2,731	15,742	2,254	4,428	12,501	30,246	73,570	782	(2)	(2)	(2)
	Indiana.....	3	2	1,404	8,782	1,047	2,187	6,097	25,049	117,654	1,638	(2)	(2)	(2)
	Michigan.....	13	12	4,043	22,205	3,136	6,232	16,183	45,859	106,538	4,354	(2)	(2)	(2)
	California.....	6	5	1,105	6,260	844	1,731	4,528	10,313	25,925	1,140	(2)	(2)	(2)
3352	Aluminum rolling and drawing, total.....	185	129	46,879	272,168	36,443	75,323	199,643	537,086	1,562,381	114,195	(2)	(2)	(2)
	New England.....	8	6	471	2,719	375	804	1,735	4,992	12,775	(3)	(2)	(2)	(2)
	Middle Atlantic...	39	31	8,997	51,492	6,414	12,839	33,889	87,038	245,161	7,588	(2)	(2)	(2)
	New York.....	14	10	2,978	15,692	2,064	4,149	10,649	32,174	93,618	4,031	(2)	(2)	(2)
	New Jersey.....	11	9	1,991	12,204	1,428	2,946	8,146	20,921	65,986	813	(2)	(2)	(2)
	Pennsylvania.....	14	12	4,028	23,596	2,922	5,744	15,094	33,943	85,557	2,744	(2)	(2)	(2)
	North Central.....	70	44	13,320	78,295	9,985	20,622	55,045	182,165	499,061	30,571	(2)	(2)	(2)
	Ohio.....	24	14	3,138	17,204	2,344	4,714	11,978	56,854	143,570	(D)	(2)	(2)	(2)
	Michigan.....	16	12	2,319	12,495	1,690	3,468	8,129	20,915	52,856	850	(2)	(2)	(2)
	South and West....	68	48	24,091	139,662	19,669	41,058	108,974	262,891	805,384	75,637	(2)	(2)	(2)
3356	Rolling and drawing, nec, total.....	143	73	16,571	94,713	11,467	22,542	57,446	174,633	486,308	14,984	11,954	123,143	(5)
	New England.....	22	11	1,686	7,820	1,303	2,613	5,333	16,645	65,307	(3)	(4)	(4)	(5)
	Massachusetts...	6	3	762	3,279	552	1,152	2,069	6,780	18,519	(3)	323	3,035	(5)
	Middle Atlantic...	52	22	4,198	23,818	2,679	4,984	12,998	37,663	130,235	6,076	(4)	(4)	(5)
	Pennsylvania.....	13	7	2,069	11,632	1,239	2,207	5,457	16,706	42,066	1,479	(4)	(4)	(5)
	North Central, South and West...	69	40	10,687	63,075	7,485	14,945	39,115	120,325	290,766	8,458	(4)	(4)	(5)
	Illinois.....	13	10	1,540	8,790	1,029	2,085	5,150	17,440	57,282	(3)	(4)	(4)	(5)
3357	Nonferrous wire drawing, etc, total	278	182	56,493	296,157	43,523	88,973	209,932	568,911	1,532,508	36,226	(2)	(2)	(2)
	New England.....	77	53	15,174	72,535	11,589	23,602	48,586	133,528	322,533	8,336	(2)	(2)	(2)
	Massachusetts...	32	19	5,084	23,728	3,829	7,736	15,720	40,867	89,773	3,318	(2)	(2)	(2)
	Rhode Island....	14	13	5,030	23,752	4,022	8,477	16,779	42,137	118,269	1,505	(2)	(2)	(2)
	Connecticut.....	24	15	4,061	19,760	3,054	5,930	13,144	38,619	85,458	2,274	(2)	(2)	(2)
	Middle Atlantic...	91	60	19,794	107,567	15,201	31,329	76,816	206,667	589,889	14,765	(2)	(2)	(2)
	New York.....	39	22	8,439	46,039	6,294	12,899	32,180	84,104	255,134	8,877	(2)	(2)	(2)
	New Jersey.....	38	26	8,711	49,186	6,726	13,918	35,385	99,712	277,217	5,040	(2)	(2)	(2)
	Pennsylvania.....	14	12	2,644	12,342	2,181	4,512	9,251	22,851	57,538	848	(2)	(2)	(2)
	North Central.....	62	40	15,481	83,099	12,334	24,969	62,023	162,502	417,254	8,732	(2)	(2)	(2)
	Indiana.....	17	12	4,901	25,956	3,974	8,340	20,057	54,698	156,345	4,480	(2)	(2)	(2)
	Illinois.....	21	14	3,020	16,264	2,239	4,624	11,110	40,476	109,598	1,528	(2)	(2)	(2)
	South.....	22	14	3,370	18,210	2,547	5,095	12,651	41,404	134,370	2,792	(2)	(2)	(2)
	Texas.....	4	4	420	1,847	354	773	1,399	5,556	12,692	(D)	(2)	(2)	(2)
	Pacific.....	26	15	2,674	14,746	1,852	3,978	9,856	24,810	68,462	1,601	(2)	(2)	(2)
3361	Aluminum castings, total.....	955	283	30,045	158,915	24,626	48,683	119,166	225,686	422,041	12,220	(2)	(2)	(2)
	New England.....	68	14	1,677	8,334	1,400	2,773	6,382	10,949	19,667	528	(2)	(2)	(2)
	Connecticut.....	28	8	1,118	5,903	921	1,837	4,445	7,587	13,941	(3)	(2)	(2)	(2)
	Middle Atlantic...	175	55	6,093	32,160	5,109	10,258	25,258	47,116	77,603	1,805	(2)	(2)	(2)
	New York.....	67	28	2,223	11,501	1,826	3,748	8,788	17,215	28,895	604	(2)	(2)	(2)
	New Jersey.....	40	12	1,269	6,928	1,070	2,130	5,495	9,389	15,816	(3)	(2)	(2)	(2)
	Pennsylvania.....	68	15	2,601	13,731	2,213	4,380	10,975	20,512	32,892	1,052	(2)	(2)	(2)
	East North Central	352	121	14,562	80,050	11,787	23,572	58,504	110,132	211,345	4,156	(2)	(2)	(2)
	Ohio.....	120	42	5,986	34,142	4,828	9,769	25,078	45,950	85,230	920	(2)	(2)	(2)
	Indiana.....	33	11	1,515	8,488	1,146	2,207	5,682	9,941	19,725	1,380	(2)	(2)	(2)
	Illinois.....	83	26	2,407	12,635	2,012	3,859	9,281	17,863	34,006	639	(2)	(2)	(2)
	Michigan.....	80	23	2,908	16,015	2,309	4,693	11,671	24,974	49,618	729	(2)	(2)	(2)
	Wisconsin.....	36	19	1,746	8,770	1,492	3,044	6,792	11,404	22,766	(3)	(2)	(2)	(2)
	West North Central	72	25	2,544	12,574	2,151	3,890	10,081	17,792	34,032	720	(2)	(2)	(2)
	Minnesota.....	21	8	678	3,557	586	1,177	2,891	4,584	8,816	(3)	(2)	(2)	(2)
	Iowa.....	16	4	327	1,370	272	506	1,032	2,011	3,855	(3)	(2)	(2)	(2)
	Missouri.....	25	11	1,443	7,251	1,209	2,047	5,844	10,572	19,945	(3)	(2)	(2)	(2)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3361	Aluminum castings--Con.													
	South Atlantic....	39	7	471	1,700	404	769	1,316	2,538	10,127	(D)	(2)	(2)	(2)
	Florida.....	15	3	149	508	129	251	415	961	7,238	(3)	(2)	(2)	(2)
	East South Central	17	3	643	3,631	477	988	2,413	3,208	9,231	(D)	(2)	(2)	(2)
	West South Central	50	11	807	3,382	654	1,193	2,520	6,513	12,819	(D)	(2)	(2)	(2)
	Arkansas.....	7	3	302	1,475	224	414	1,000	3,067	7,264	(D)	(2)	(2)	(2)
	Texas.....	34	6	440	1,682	374	672	1,341	2,984	4,928	(3)	(2)	(2)	(2)
	Mountain.....	16	2	126	531	108	193	423	879	1,338	(3)	(2)	(2)	(2)
	Pacific.....	166	45	3,122	16,553	2,536	5,047	12,269	26,559	45,879	1,454	(2)	(2)	(2)
	California.....	150	44	2,998	15,972	2,429	4,841	11,782	25,683	43,959	1,392	(2)	(2)	(2)
3362	Brass, bronze, copper castings, total.....	665	209	14,861	70,512	12,294	23,538	52,786	109,744	220,955	5,103	(2)	(2)	(2)
	New England.....	80	24	1,496	6,471	1,276	2,516	5,007	10,377	18,042	(3)	(2)	(2)	(2)
	Massachusetts...	41	12	766	3,301	656	1,266	2,588	4,919	8,951	(3)	(2)	(2)	(2)
	Rhode Island....	9	3	108	362	93	194	303	563	1,095	(3)	(2)	(2)	(2)
	Connecticut.....	22	7	373	1,777	306	636	1,254	2,660	5,164	(3)	(2)	(2)	(2)
	Middle Atlantic...	180	55	4,480	20,899	3,736	7,172	15,610	32,167	63,425	1,365	(2)	(2)	(2)
	New York.....	69	22	1,571	7,123	1,339	2,494	5,650	10,865	23,173	(3)	(2)	(2)	(2)
	New Jersey.....	43	10	638	3,122	526	991	2,279	4,852	8,977	(3)	(2)	(2)	(2)
	Pennsylvania.....	68	23	2,271	10,654	1,871	3,687	7,681	16,450	31,275	739	(2)	(2)	(2)
	East North Central	225	77	5,712	28,987	4,662	8,835	21,345	44,471	89,227	1,841	(2)	(2)	(2)
	Ohio.....	65	24	1,977	9,566	1,539	2,796	6,791	13,948	28,087	785	(2)	(2)	(2)
	Illinois.....	65	23	1,442	7,031	1,221	2,363	5,380	10,515	22,719	(3)	(2)	(2)	(2)
	Michigan.....	40	13	982	5,971	777	1,541	4,161	10,860	18,754	(3)	(2)	(2)	(2)
	West North Central	29	13	848	3,777	685	1,257	2,718	6,803	15,685	(D)	(2)	(2)	(2)
	Minnesota.....	6	3	161	574	131	249	417	683	1,516	(D)	(2)	(2)	(2)
	Missouri.....	14	6	522	2,564	415	759	1,811	5,069	10,999	(3)	(2)	(2)	(2)
	South.....	55	12	769	3,050	638	1,187	2,323	4,803	10,479	(D)	(2)	(2)	(2)
	Texas.....	18	2	183	751	156	296	568	1,263	3,395	(3)	(2)	(2)	(2)
	West.....	96	28	1,556	7,328	1,297	2,571	5,783	11,123	24,097	529	(2)	(2)	(2)
	Colorado.....	5	3	145	550	124	245	463	767	2,191	(D)	(2)	(2)	(2)
	California.....	72	20	1,212	5,917	1,010	2,042	4,630	9,505	18,653	(3)	(2)	(2)	(2)
3369	Nonferrous castings, nec, total.....	345	136	17,253	89,239	14,330	27,617	66,339	135,311	234,649	5,013	(2)	(2)	(2)
	Northeast.....	128	37	4,775	23,683	3,909	7,411	17,141	32,733	56,078	1,585	(2)	(2)	(2)
	Connecticut.....	14	4	319	1,657	248	511	1,085	2,416	4,562	(3)	(2)	(2)	(2)
	New York.....	57	13	1,613	7,792	1,272	2,152	4,746	10,695	18,667	1,078	(2)	(2)	(2)
	East North Central	141	70	9,563	51,351	8,015	15,509	38,268	78,280	140,176	2,492	(2)	(2)	(2)
	Ohio.....	29	15	2,066	10,731	1,768	3,187	7,828	16,176	27,641	(3)	(2)	(2)	(2)
	Illinois.....	42	20	3,168	16,734	2,743	5,262	13,106	23,720	39,393	(3)	(2)	(2)	(2)
	Michigan.....	55	29	3,639	20,568	2,906	5,916	14,787	33,217	64,053	1,495	(2)	(2)	(2)
	West North Central	13	8	754	3,762	653	1,285	3,050	6,702	10,890	(3)	(2)	(2)	(2)
	Missouri.....	6	5	597	2,992	526	1,030	2,516	5,374	8,842	(3)	(2)	(2)	(2)
	South.....	16	3	317	1,157	271	443	962	1,595	3,281	(3)	(2)	(2)	(2)
	Texas.....	7	2	216	792	188	291	665	1,094	2,065	(3)	(2)	(2)	(2)
	West.....	47	18	1,844	9,286	1,482	2,969	6,918	16,001	24,224	587	(2)	(2)	(2)
	California.....	42	17	1,731	8,750	1,400	2,806	6,584	15,019	22,826	(3)	(2)	(2)	(2)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>†</sup>Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3351, Copper Rolling and Drawing: New England—Massachusetts, 3 (500-999); Rhode Island, 4 (500-999); Middle Atlantic—New York, 10 (2,500-4,999); New Jersey, 10 (2,500-4,999); North Central, South and West—Illinois, 5 (2,500-4,999); Wisconsin, 2 (1,000-2,499); Maryland, 1 (1,000-2,499); Tennessee, 1 (1-19); Alabama, 1 (500-999); Montana, 1 (100-249).

SIC 3352, Aluminum Rolling and Drawing: New England—Massachusetts, 2 (20-99); Connecticut, 6 (250-499); North Central—Indiana, 8 (2,181); Illinois, 11 (3,269); Wisconsin, 1 (100-249); Iowa, 4 (1,000-2,499); Missouri, 1 (100-249); Nebraska, 2 (1-19); Kansas, 3 (20-99); South and West—Maryland, 2 (1,000-2,499); Virginia, 5 (1,000-2,499); West Virginia, 2 (1,000-2,499); North Carolina, 2 (250-499); South Carolina, 2 (100-249); Georgia, 2 (250-499); Florida, 9 (250-499); Kentucky, 4 (1,212); Tennessee, 4 (3,974); Alabama, 1 (1,000-2,499); Mississippi, 2 (250-499); Arkansas, 2 (100-249); Texas, 3 (250-499); Arizona, 1 (1,000-249); Washington, 4 (2,500-4,999); California, 23 (4,952).

SIC 3356, Rolling and Drawing, NEC: New England—Maine, 1 (100-249); New Hampshire, 1 (20-99); Vermont, 1 (1-19); Rhode Island, 8 (100-249); Connecticut, 5 (250-499); Middle Atlantic—New York, 25 (500-999); New Jersey, 14 (1,000-2,499); North Central, South and West—Ohio, 10 (2,687); Indiana, 5 (2,879); Michigan, 8 (500-999); Wisconsin, 1 (1-19); Missouri, 1 (1-19); Nebraska, 1 (20-99); Maryland, 2 (20-99); Virginia, 1 (1-19); West Virginia, 1 (1,000-2,499); North Carolina, 2 (20-99); Georgia, 3 (20-99); Florida, 1 (1-19); Kentucky, 3 (1-19); Alabama, 1 (1-19); Louisiana, 1 (1-19); Texas, 6 (100-249); Colorado, 1 (1-19); Nevada, 1 (250-499); Washington, 1 (20-99); California, 6 (20-99).

Footnotes continued on next page.



# NONFERROUS METAL MILL AND FOUNDRY PRODUCTS

33D-11

Footnotes for Table 2—33D

SIC 3357, Nonferrous Wire Drawing, NEC: New England—New Hampshire, 4 (500-999); Vermont, 3 (250-499); North Central—Ohio, 6 (4,814); Michigan, 2 (1,000-2,499); Wisconsin, 1 (250-499); Minnesota, 1 (1-19); Iowa, 1 (20-99); Missouri, 3 (500-999); Nebraska, 2 (250-499); Kansas, 2 (1-19); South—Delaware, 1 (1-19); Maryland, 1 (1,000-2,499); West Virginia, 1 (1-19); North Carolina, 4 (250-499); Georgia, 1 (20-99); Florida, 1 (100-249); Tennessee, 4 (100-249); Alabama, 2 (250-499); Louisiana, 1 (20-99); Oklahoma, 2 (20-99); Pacific—Washington, 1 (20-99); California, 25 (2,500-4,999).

SIC 3361, Aluminum Castings: New England—Massachusetts, 38 (500-999); Rhode Island, 2 (1-19); West North Central—Nebraska, 3 (1-19); Kansas, 7 (20-99); South Atlantic—Maryland, 3 (20-99); Virginia, 2 (1-19); North Carolina, 4 (20-99); South Carolina, 3 (1-19); Georgia, 12 (100-249); East South Central—Kentucky, 3 (100-249); Tennessee, 5 (20-99); Alabama, 8 (250-499); Mississippi, 1 (1-19); West South Central—Louisiana, 2 (20-99); Oklahoma, 7 (20-99); Mountain—Colorado, 12 (20-99); New Mexico, 2 (1-19); Arizona, 1 (20-99); Utah, 1 (1-19); Pacific—Washington, 7 (20-99); Oregon, 9 (20-99).

SIC 3362, Brass, Bronze, and Copper Castings: New England—Maine, 4 (20-99); New Hampshire, 4 (100-249); East North Central—Indiana, 22 (250-499); Wisconsin, 33 (500-999); West North Central—Iowa, 5 (20-99); Kansas, 4 (20-99); South—Delaware, 1 (1-19); Maryland, 4 (20-99); Virginia, 2 (100-249); West Virginia, 5 (20-99); North Carolina, 3 (1-19); South Carolina, 1 (1-19); Georgia, 2 (20-99); Florida, 7 (20-99); Kentucky, 1 (1-19); Tennessee, 3 (20-99); Alabama, 3 (20-99); Louisiana, 1 (1-19); Oklahoma, 4 (20-99); West—Arizona, 1 (1-19); Utah, 3 (20-99); Pacific—Washington, 8 (20-99); Oregon, 7 (20-99).

SIC 3369, Nonferrous Castings, NEC: Northeast—Massachusetts, 14 (250-499); Rhode Island, 8 (20-99); New Jersey, 20 (1,401); Pennsylvania, 15 (500-999); East North Central—Indiana, 9 (250-499); Wisconsin, 6 (250-499); West North Central—Minnesota, 3 (20-99); Iowa, 1 (1-19); Kansas, 3 (20-99); South—Maryland, 1 (1-19); North Carolina, 3 (1-19); Kentucky, 1 (20-99); Tennessee, 1 (1-19); Mississippi, 1 (1-19); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); West—Colorado, 3 (20-99); Oregon, 2 (20-99).

<sup>2</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>5</sup>Comparable data for 1947 are not available.

## Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958											1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number	
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
3351	Copper rolling and drawing, total <sup>2</sup> ....	103	90	41,283	227,697	32,641	65,116	170,205	458,328	1,267,722	30,757	41,906	420,604	53,891	
	New England.....	29	26	13,487	75,231	10,949	21,326	57,672	140,891	348,417	11,516	16,645	138,525	22,608	
	Connecticut.....	22	21	11,736	66,118	9,576	18,650	50,985	123,663	304,148	11,341	14,758	120,661	20,285	
	Middle Atlantic....	33	27	11,767	61,930	9,076	18,268	45,479	127,147	374,568	6,074	9,326	107,512	14,043	
	New York.....	10	7	3,837	20,997	3,079	6,094	15,925	43,571	133,113	3,690	4,014	43,593	6,767	
	New Jersey.....	9	8	2,813	15,630	2,365	4,921	12,846	37,111	142,171	841	2,674	25,752	3,872	
	Pennsylvania.....	14	12	5,117	25,303	3,632	7,253	16,708	46,465	99,284	1,543	2,638	38,167	3,404	
	North Central, South and West...	41	37	16,029	90,536	12,616	25,522	67,054	190,290	544,737	13,167	15,935	174,567	17,240	
	Ohio.....	6	6	2,731	15,742	2,254	4,428	12,501	30,246	73,570	782	2,742	23,618	2,507	
	Indiana.....	3	2	1,404	8,782	1,047	2,187	6,097	25,049	117,654	1,638	(3)	(3)	(3)	
	Michigan.....	13	12	4,043	22,205	3,136	6,232	16,183	45,859	106,538	4,354	4,445	17,278	5,266	
3352	Aluminum rolling and drawing, total <sup>2</sup>	168	112	42,375	246,045	32,972	68,099	180,480	475,331	1,375,440	109,657	36,803	339,717	27,365	
	Northeast.....	42	32	8,284	46,820	5,981	12,014	31,204	81,988	225,276	7,539	19,662	173,345	12,031	
	North Central.....	67	41	12,908	76,180	9,707	20,087	53,726	177,494	487,306	30,264	(3)	(3)	(3)	
	Ohio.....	25	14	3,145	17,204	2,344	4,714	11,978	56,893	143,570	20,386	2,709	21,236	(D)	
	Indiana.....	8	4	2,181	12,706	1,506	2,844	7,988	22,178	47,617	4,277	(3)	(3)	(3)	
	Illinois.....	10	7	3,213	20,801	2,604	5,733	16,422	41,797	117,480	4,036	(3)	(3)	(3)	
	Michigan.....	16	12	2,319	12,495	1,690	3,468	8,129	20,915	52,856	850	1,771	11,228	1,303	
	South.....	31	25	10,882	60,943	8,976	18,252	47,715	101,894	365,232	67,571	7,596	63,742	(3)	
	West.....	27	14	10,294	62,102	8,308	17,746	47,835	113,916	297,626	4,283	9,544	102,628	(3)	
	California.....	22	9	4,756	27,462	3,754	8,360	20,250	43,465	95,804	2,516	4,422	42,413	(3)	
3361	Nonferrous foundries, total <sup>5</sup> .....	1,965	628	62,159	318,666	51,250	99,838	238,291	470,741	877,645	22,336	73,487	476,969	66,798	
	Northeast.....	631	185	18,521	91,547	15,430	30,130	69,398	133,342	234,815	5,725	(3)	(3)	(3)	
	Massachusetts...	93	22	1,690	7,190	1,469	2,919	5,752	10,793	18,331	(4)	1,681	9,477	1,649	
	Rhode Island.....	19	3	192	635	165	317	540	943	1,805	(4)	150	797	118	
	Connecticut.....	64	19	1,810	9,337	1,475	2,984	6,784	12,663	23,667	541	2,087	13,263	1,928	
	New York.....	193	63	5,407	26,416	4,437	8,394	19,184	38,775	70,735	2,123	6,759	40,285	7,181	
	East North Central	718	268	29,837	160,388	24,464	47,916	118,117	232,883	440,748	8,489	39,137	262,723	36,102	
	Ohio.....	214	81	10,029	54,439	8,135	15,752	39,697	76,074	140,958	2,108	14,006	96,687	14,471	
	Indiana.....	64	23	2,329	12,533	1,829	3,484	8,713	15,288	31,029	1,594	5,791	32,711	2,936	
	Illinois.....	190	69	7,017	36,400	5,976	11,484	27,767	52,098	96,118	1,476	8,671	56,354	9,087	
	Michigan.....	175	65	7,529	42,554	5,992	12,150	30,619	69,051	132,425	2,416	6,808	54,368	6,696	
	Wisconsin.....	75	30	2,933	14,462	2,532	5,046	11,321	20,372	40,218	895	3,858	22,600	2,912	

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3361	Nonferrous foundries—Continued													
	West North Central	114	46	4,146	20,113	3,489	6,432	15,849	31,297	60,507	(D)	3,655	21,097	3,353
	Minnesota.....	30	13	921	4,558	779	1,555	3,591	5,992	11,468	(4)	909	6,642	768
	Iowa.....	22	6	406	1,667	343	627	1,289	2,508	4,957	(4)	413	2,207	341
	Missouri.....	45	22	2,562	12,807	2,150	3,836	10,171	21,015	39,786	810	2,068	11,034	2,042
	South Atlantic....	68	12	889	3,288	734	1,361	2,483	4,948	14,734	(D)	723	4,280	1,013
	Maryland.....	8	2	144	605	118	212	452	786	1,623	(4)	(3)	(3)	(3)
	Georgia.....	14	3	258	870	204	384	638	1,096	2,515	(4)	129	744	137
	Florida.....	22	3	175	591	154	291	495	1,089	7,501	(4)	290	1,605	77
	East South Central	27	7	817	4,313	629	1,279	2,972	4,302	11,860	(D)	363	1,426	727
	Alabama.....	11	4	553	3,403	414	874	2,274	2,387	8,407	(D)	100	559	108
	West South Central	82	17	1,301	5,319	1,081	1,940	4,079	9,407	19,343	742	1,367	7,878	683
	Arkansas.....	7	3	302	1,475	224	414	1,000	3,067	7,264	(D)	444	3,022	61
	Oklahoma.....	12	3	123	480	105	212	388	801	1,382	(4)	213	1,329	116
	Texas.....	59	10	839	3,225	718	1,259	2,574	5,341	10,388	603	658	3,313	445
	Mountain.....	28	8	419	1,718	342	658	1,329	2,625	5,220	(4)	241	1,363	287
	Colorado.....	20	5	307	1,294	253	493	997	2,035	4,066	(4)	(3)	(3)	(3)
	Pacific.....	297	85	6,229	31,980	5,081	10,122	24,064	51,937	90,318	2,217	6,587	46,165	4,803
	California.....	264	81	5,941	30,639	4,839	9,689	22,996	50,207	85,438	2,119	6,085	43,093	4,439

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3351, Copper Rolling and Drawing: New England—Massachusetts, 3 (500-999); Rhode Island, 4 (500-999); North Central, South and West—Illinois, 5 (2,500-4,999); Wisconsin, 2 (1,000-2,499); Missouri, 1 (250-499); Maryland, 1 (1,000-2,499); Tennessee, 1 (1-19); Alabama, 1 (500-999); Montana, 1 (100-249); California, 7 (1,000-2,499).

SIC 3352, Aluminum Rolling and Drawing: Northeast—Massachusetts, 2 (20-99); Connecticut, 5 (250-499); New York, 13 (2,500-4,999); New Jersey, 9 (1,000-2,499); Pennsylvania, 13 (2,500-4,999); North Central—Wisconsin, 1 (100-249); Iowa, 3 (1,000-2,499); Nebraska, 2 (1-19); Kansas, 3 (20-99); South—Maryland, 2 (1,000-2,499); Virginia, 3 (250-499); West Virginia, 2 (1,000-2,499); South Carolina, 2 (100-249); Georgia, 2 (250-499); Florida, 9 (250-499); Kentucky, 2 (250-499); Tennessee, 2 (2,500-4,999); Alabama, 1 (1,000-2,499); Mississippi, 2 (250-499); Arkansas, 1 (20-99); Texas, 3 (250-499); West—Arizona, 1 (1,000-2,499); Washington, 4 (3,179).

SIC 3361, Nonferrous Foundries: Northeast—Maine, 4 (20-99); New Hampshire, 4 (100-249); New Jersey, 103 (2,500-4,999); Pennsylvania, 151 (5,000 and over); West North Central—Nebraska, 3 (1-19); Kansas, 14 (100-249); South Atlantic—Delaware, 1 (1-19); Virginia, 4 (100-249); West Virginia, 5 (20-99); North Carolina, 10 (20-99); South Carolina, 4 (1-19); East South Central—Kentucky, 5 (100-249); Tennessee, 9 (20-99); Mississippi, 2 (1-19); West South Central—Louisiana, 4 (20-99); Mountain—New Mexico, 2 (1-19); Arizona, 2 (20-99); Utah, 4 (20-99); Pacific—Washington, 15 (100-249); Oregon, 18 (100-249).

<sup>2</sup>See footnote 8 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Less than \$500 thousand.<sup>5</sup>See footnote 12 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.



Table 3.—Detailed Statistics for the United States: 1958

Item	Copper rolling and drawing (SIC 3351)	Aluminum rolling and drawing (SIC 3352)	Rolling and drawing, nec (SIC 3356)	Nonferrous wire drawing, etc. (SIC 3357)	Aluminum castings (SIC 3361)	Brass, bronze, copper castings (SIC 3362)	Nonferrous castings, nec (SIC 3369)
Primary product specialization ratio <sup>1</sup> .....	88	91	77	94	79	85	78
Coverage ratio <sup>2</sup> .....	94	92	82	84	81	81	77
Number of establishments, total.....	105	185	143	278	955	665	345
With 1-19 employees.....	16	56	70	96	672	456	209
With 20-99 employees.....	31	62	41	69	226	187	92
With 100 employees or more.....	58	67	32	113	57	22	44
Proprietors and working partners.....Number..	7	19	24	33	575	361	175
All employees:							
Number (average for the year).....	40,329	46,879	16,571	56,493	30,045	14,861	17,253
Payroll.....\$1,000..	222,259	272,168	94,713	296,157	158,915	70,512	89,239
Production workers:							
Number (average for the year).....	31,792	36,443	11,467	43,523	24,626	12,294	14,330
March.....	32,017	34,589	11,682	42,487	24,384	12,126	14,021
May.....	30,667	35,015	11,037	40,381	23,555	12,152	13,117
August.....	31,416	37,281	11,243	43,757	24,356	12,376	14,288
November.....	33,063	38,839	11,938	47,391	26,556	12,713	16,058
Man-hours.....1,000..	63,291	75,323	22,542	88,973	48,683	23,538	27,617
January-March.....do....	15,874	17,499	5,644	22,010	11,806	5,795	6,620
April-June.....do....	15,016	18,383	5,462	21,016	11,690	5,812	6,338
July-September.....do....	14,794	19,143	5,246	21,197	11,901	5,745	6,830
October-December.....do....	17,607	20,298	6,190	24,750	13,286	6,186	7,829
Wages.....\$1,000..	165,367	199,643	57,446	209,932	119,166	52,786	66,339
Cost of materials, etc., total.....do....	775,650	1,057,370	306,634	969,254	198,560	111,609	98,678
Materials, parts, containers, and supplies consumed.....do....	700,162	995,669	270,272	927,284	173,536	101,504	80,438
Cost of resales.....do....	48,531	28,022	16,023	14,172	4,555	2,877	1,751
Fuels consumed.....do....	10,411	14,770	3,729	6,778	6,164	2,805	2,593
Electricity purchased.....do....	11,853	15,595	4,231	11,482	4,767	1,913	2,777
Contract work.....do....	4,693	3,314	12,379	9,538	9,538	2,510	11,119
Value of shipments (including resales), total.....do....	1,209,926	1,562,381	486,308	1,532,508	422,041	220,955	234,649
Value of resales.....do....	49,800	29,111	18,669	16,814	5,175	3,462	2,042
Value added by manufacture, adjusted...do....	445,371	537,086	174,633	568,911	225,686	109,744	135,311
Manufacturers' inventories:							
Beginning of year, total.....do....	161,012	295,680	156,543	271,357	43,640	24,793	24,742
Finished products.....do....	36,970	53,130	54,014	101,677	7,089	7,409	4,714
Work-in-process.....do....	67,170	172,233	64,195	94,587	13,440	5,506	8,167
Materials, supplies, fuel, etc.....do....	56,872	70,317	38,334	75,093	23,111	11,878	11,861
End of year, total.....do....	182,298	341,526	149,050	282,301	43,628	25,991	23,054
Finished products.....do....	43,690	72,322	55,351	102,078	6,513	7,028	4,513
Work-in-process.....do....	71,545	185,116	57,817	99,843	16,221	6,285	7,708
Materials, supplies, fuel, etc.....do....	67,063	84,088	35,882	80,380	20,894	12,678	10,833
Expenditures for plant and equipment, total.....do....	31,054	116,182	15,729	37,876	13,355	6,339	5,710
New, total.....do....	30,617	114,195	14,984	36,226	12,220	5,103	5,013
New structures and additions to plant.....do....	6,370	42,483	5,034	8,656	2,390	1,947	1,000
New machinery and equipment.....do....	24,247	71,712	9,950	27,570	9,830	3,156	4,013
Used plant and equipment.....do....	437	1,987	745	1,650	1,135	1,236	697

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3351	Copper rolling and drawing:											
	Number of establishments.....	105	4	7	5	14	17	17	14	14	13	...
	All employees:											
	Number.....	40,329	55	(D)	<u>511</u>	(D)	1,161	2,906	5,436	10,091	20,169	...
	Payroll.....\$1,000..	222,259	<u>305</u>	(D)	<u>2,548</u>	(D)	6,305	16,034	29,806	55,156	112,105	...
	Value added, adjusted..do....	445,371	<u>536</u>	(D)	<u>7,837</u>	(D)	17,601	43,094	56,398	110,317	209,588	...
	Value of shipments.....do....	1,209,926	<u>1,797</u>	(D)	<u>48,413</u>	(D)	70,066	123,532	167,291	257,331	541,496	...
	Capital expend., new...do....	30,617	<u>4,074</u>	(D)	(D)	(D)	2,536	1,144	3,404	5,624	13,835	...
3352	Aluminum rolling and drawing:											
	Number of establishments.....	185	26	16	14	29	33	30	16	8	9	4
	All employees:											
	Number.....	46,879	52	108	204	934	2,315	4,888	5,026	6,084	16,191	11,077
	Payroll.....\$1,000..	272,168	261	466	837	4,149	11,465	26,165	28,401	36,553	97,397	66,474
	Value added, adjusted..do....	537,086	446	936	1,479	8,136	24,764	53,214	46,339	62,798	194,819	144,155
	Value of shipments.....do....	1,562,381	1,320	3,008	5,542	32,057	78,773	199,213	170,096	174,099	516,705	381,568
	Capital expend., new...do....	114,195	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,311	3,868	3,783	22,623	3,127	70,141	7,933
3356	Rolling and drawing, nec:											
	Number of establishments.....	143	25	22	23	24	17	16	8	6	2	...
	All employees:											
	Number.....	16,571	51	150	309	757	1,162	2,423	2,859	8,860	(D)	...
	Payroll.....\$1,000..	94,713	279	696	1,646	3,432	6,091	12,483	16,863	<u>53,223</u>	(D)	...
	Value added, adjusted..do....	174,633	478	1,334	3,686	6,420	12,634	21,162	40,296	<u>88,623</u>	(D)	...
	Value of shipments.....do....	486,308	2,486	3,926	19,730	31,575	60,311	68,561	113,540	<u>186,179</u>	(D)	...
	Capital expend., new...do....	14,984	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4,549	1,993	<u>7,707</u>	(D)	...
3357	Nonferrous wire drawing, etc:											
	Number of establishments.....	278	44	23	29	33	36	40	37	27	8	1
	All employees:											
	Number.....	56,493	101	154	395	969	2,591	6,349	13,109	18,084	<u>14,741</u>	(D)
	Payroll.....\$1,000..	296,157	429	650	1,888	4,847	12,349	30,161	66,179	96,332	<u>83,322</u>	(D)
	Value added, adjusted..do....	568,911	1,043	1,171	3,362	11,026	25,181	58,542	128,108	186,525	<u>153,953</u>	(D)
	Value of shipments.....do....	1,532,508	2,309	4,251	8,769	31,295	83,607	191,690	367,659	468,448	<u>374,480</u>	(D)
	Capital expend., new...do....	36,226	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,719	5,452	4,987	17,234	<u>5,819</u>	(D)
3361	Aluminum castings:											
	Number of establishments.....	955	329	177	166	163	63	32	18	6	1	...
	All employees:											
	Number.....	30,045	661	1,190	2,259	4,931	4,289	4,918	6,163	<u>5,634</u>	(D)	...
	Payroll.....\$1,000..	158,915	2,412	5,202	10,201	23,342	21,735	25,946	36,937	<u>33,140</u>	(D)	...
	Value added, adjusted..do....	225,686	4,581	7,990	15,208	37,207	32,510	34,184	43,437	<u>50,569</u>	(D)	...
	Value of shipments.....do....	422,041	8,634	15,314	27,402	73,409	62,185	71,127	85,699	<u>78,271</u>	(D)	...
	Capital expend., new...do....	12,220	828	542	794	1,600	1,256	2,608	3,734	<u>858</u>	(D)	...
3362	Brass, bronze, copper castings:											
	Number of establishments.....	665	190	125	141	143	44	15	7	...	...	...
	All employees:											
	Number.....	14,861	421	869	2,008	4,260	3,018	2,104	2,181	...	...	...
	Payroll.....\$1,000..	70,512	1,777	3,695	8,758	20,406	14,188	10,728	10,960	...	...	...
	Value added, adjusted..do....	109,744	2,935	5,924	13,142	29,876	21,361	18,734	17,772	...	...	...
	Value of shipments.....do....	220,955	6,350	11,256	26,798	62,548	46,152	34,928	32,923	...	...	...
	Capital expend., new...do....	5,103	821	505	596	1,180	1,050	( <sup>1</sup> )	536	...	...	...
3369	Nonferrous castings, nec:											
	Number of establishments.....	345	101	47	61	61	31	29	10	5	...	...
	All employees:											
	Number.....	17,253	203	312	857	1,918	2,174	5,035	3,578	3,176	...	...
	Payroll.....\$1,000..	89,239	829	1,270	3,833	9,322	10,453	26,879	19,566	17,087	...	...
	Value added, adjusted..do....	135,311	1,449	2,153	6,812	14,572	17,237	38,862	28,201	26,025	...	...
	Value of shipments.....do....	234,649	3,236	4,402	12,711	28,085	32,046	67,648	44,059	42,462	...	...
	Capital expend., new...do....	5,013	662	( <sup>1</sup> )	561	621	866	1,293	( <sup>1</sup> )	( <sup>1</sup> )	...	...

<sup>1</sup>Revised.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3351	Copper rolling and drawing.....1958..	1,209,926	975,762	134,063	100,101	88	1,034,397	975,762	58,635	94
3352	Aluminum rolling and drawing....1958..	1,562,381	1,360,661	131,338	70,382	91	1,472,252	1,360,661	111,591	<sup>3</sup> 92
3356	Rolling and drawing, nec.....1958..	486,308	352,879	105,163	28,266	77	428,210	352,879	75,331	<sup>4</sup> 82
3357	Nonferrous wire drawing, etc....1958..	1,532,508	1,405,090	88,010	39,408	94	1,680,824	1,405,090	275,734	<sup>5</sup> 84
3361	Aluminum castings.....1958..	422,041	324,538	86,497	11,006	79	399,605	324,538	75,067	81
3362	Brass, bronze, copper castings..1958..	220,955	180,459	33,032	7,464	85	222,755	180,459	42,296	81
3369	Nonferrous castings, nec.....1958..	234,649	179,536	50,381	4,732	78	233,236	179,536	53,700	77

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Included in this industry is aluminum and aluminum-base alloy wire (including ACSR) which is also primary to Industry 3357, Nonferrous Wire Drawing, etc. A coverage ratio computed on the basis of including both industries to which aluminum and aluminum-base alloy wire (including ACSR) is primary would total 96 percent; 92 percent by Industry 3352, and 4 percent by Industry 3357. The remaining 4 percent was shipped by establishments in other industries.

<sup>4</sup>Included in this industry is Other Nonferrous Metal Wire, which is also primary to Industry 3357, Nonferrous Wire Drawing, etc. A coverage ratio computed on the basis of including both industries to which nonferrous metal wire is primary would total 87 percent; 82 percent by Industry 3356, and 5 percent by Industry 3357. The remaining 13 percent was shipped by establishments in other industries.

<sup>5</sup>Included in this industry are aluminum and aluminum-base alloy wire (including ACSR), other nonferrous metal wire, nonferrous woven wire products and appliance wire and cord and flexible cord sets which are also primary, respectively, to Industries 3352, Aluminum Rolling and Drawing; 3356, Rolling and Drawing, NEC; 3481, Fabricated Wire Products, NEC; and 3699, Electrical Products, NEC. A coverage ratio computed on the basis of including the industries to which these products are primary would total 93 percent; 84 percent by Industry 3357, and 9 percent by Industries 3352, 3356, 3481, and 3699. The remaining 7 percent was shipped by establishments in other industries.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. Each column shows for the industry named in the column heading the total value of shipments divided among: (a) for group 335-, nonferrous rolled, drawn, and extruded products, including bare and insulated wire and cable; and for group 336-, nonferrous castings, (b) other products, and (c) miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry named at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code		Copper rolling and drawing (SIC 3351)	Aluminum rolling and drawing (SIC 3352)	Rolling and drawing, nec (SIC 3356)	Nonferrous wire drawing, etc. (SIC 3357)	Other industries <sup>1</sup>	All industries
	Total shipments and receipts of the industry.....	1,209,926	1,562,381	486,308	1,532,508	xxx	xxx
335--	Nonferrous rolled, drawn, and extruded products, including bare and insulated wire and cable.....	1,077,569	1,381,573	357,034	1,427,586	rxxx	rxxx
	Primary products of the industry.....	975,762	1,360,661	352,879	1,405,090	xxx	xxx
33511	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission....	37,009	(D)	(D)	7,272	<sup>2</sup> 3,565	47,846
33512	Rolled, drawn, and extruded copper and copper-base alloy mill products.....	938,753	(D)	(D)	(D)	<sup>3</sup> 47,798	986,551
	Aluminum and aluminum-base alloy wire (including ACSR):						
33521	Made in aluminum rolling mills (Industry 3352)....	...	46,896	...	...	...	} 100,921
33571	Made in nonferrous wire drawing (Industry 3357) and other industries.....	(D)	(D)	...	48,593	<sup>5</sup> 4,432	
33522	Aluminum plate and sheet (including foil stock)....	20,236	625,056	(D)	...	772	646,064
33523	Plain aluminum foil.....	...	140,472	...	...	...	140,472
33524	Rolled aluminum rod, bar, and structural shapes....	10,978	99,001	(D)	(D)	<sup>4</sup> 4,201	110,523
33525	Extruded aluminum rod, bar, and other extruded shapes	10,303	257,603	(D)	...	196	272,107
33526	Aluminum tube.....	7,356	82,003	(D)	...	...	89,555
33520	Aluminum base alloys and aluminum and aluminum-base alloy mill products (rolled, drawn, or extruded), nsk	...	109,630	...	...	2,980	<sup>5</sup> 112,610
33560pt.	Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum) (excluding metal wire).....	10,523	3,149	345,029	(D)	<sup>6</sup> 36,332	395,033
	Noninsulated nonferrous metal wire, except copper and aluminum:						
33560pt.	Made in rolling and drawing mills, nec (Industry 3356).....	...	...	7,850	...	...	} 33,177
33573pt.	Made in nonferrous wire drawing (Industry 3357) and other industries.....	(D)	...	...	20,377	4,950	
33572	Copper and copper-base alloy wire (including strand and cable) bare and tinned, for electrical transmission.....	(D)	(D)	(D)	109,388	<sup>7</sup> 47,105	156,493
33573pt.	Nonferrous woven wire products.....	...	...	...	16,442	<sup>8</sup> 52,116	<sup>9</sup> 68,558
33574	Communication wire and cable.....	...	(D)	...	360,258	<sup>5</sup> 115	365,373
33576	Appliance wire and cord and flexible cord sets.....	...	...	...	66,199	<sup>10</sup> 60,870	<sup>11</sup> 127,069
33577	Magnet wire.....	...	(D)	...	162,423	<sup>12</sup> 20,959	183,382
33578	Power wire and cable.....	...	...	...	194,761	...	194,761
33579	Other insulated wire and cable, nec.....	...	12,151	...	417,593	12,169	441,913
33570	Drawn and insulated nonferrous wire, nsk.....	...	...	...	9,056	121	9,177
	Other products.....	32,256	110,426	101,008	65,514	xxx	xxx
3315-	Steel wire, rope, cable, strand, and woven wire products.....	...	...	...	10,032	xxx	xxx
33412	Secondary copper (ingot, shot, etc.).....	6,640	...	...	...	xxx	xxx
33413	Secondary lead (ingot, shot, etc.).....	(D)	...	37,315	...	xxx	xxx
33991	Metal powders and pastes.....	(D)	...	6,565	...	xxx	xxx
34441	Sheet metal roofing and siding and roof drainage equipment.....	...	28,119	...	...	xxx	xxx
34970	Metal foil and leaf (except plain aluminum foil)....	...	38,226	...	...	xxx	xxx
36442	Electrical conduit and conduit fittings.....	(D)	...	...	7,028	xxx	xxx
	All other products <sup>13</sup> .....	<sup>14</sup> 25,616	<sup>15</sup> 44,081	<sup>16</sup> 57,128	<sup>17</sup> 48,454	xxx	xxx
	Miscellaneous receipts.....	100,101	70,382	28,266	39,408	xxx	xxx
	Receipts for toll processing.....	37,032	15,470	2,714	8,134	xxx	xxx
	Other contract work.....	<sup>18</sup> 681	681	4,591	2,125	xxx	xxx
	Scrap and salable refuse.....	10,784	22,715	2,005	10,135	xxx	xxx
	Resales.....	49,800	29,111	18,669	16,814	xxx	xxx
	All other.....	<sup>18</sup> 2,485	2,405	287	2,200	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Class of products and miscellaneous receipts	Aluminum castings (SIC 3361)	Brass, bronze, copper castings (SIC 3362)	Nonferrous castings, nec (SIC 3369)	Gray iron foundries (SIC 3321)	Other industries <sup>1</sup>	All industries
	Total shipments and receipts of the industry.....	422,041	220,955	234,649	xxx	xxx	xxx
336--	Nonferrous castings.....	372,505	197,289	208,267	14,297	63,238	855,596
33610	Aluminum and aluminum-base alloy castings.....	324,538	15,439	28,015	5,579	<sup>19</sup> 26,034	399,605
33620	Copper and copper-base alloy castings.....	12,669	180,459	716	7,027	<sup>20</sup> 21,884	222,755
33690	Nonferrous castings, nec.....	35,298	1,391	179,536	1,691	<sup>21</sup> 15,320	233,236
	Other products.....	38,530	16,202	21,650	xxx	xxx	xxx
33214	All other gray iron castings.....	722	2,011	(D)	xxx	xxx	xxx
33230	Steel castings.....	3,355	1,445	(D)	xxx	xxx	xxx
33441	Special dies and tools, die sets, jigs, and fixtures..	11,793	(D)	8,751	xxx	xxx	xxx
33442	Industrial molds.....	3,029	209	205	xxx	xxx	xxx
33650	Industrial patterns.....	6,109	1,217	2,770	xxx	xxx	xxx
	All other products <sup>13</sup> .....	<sup>22</sup> 13,522	<sup>23</sup> 11,320	<sup>24</sup> 9,924	xxx	xxx	xxx
	Miscellaneous receipts.....	11,006	7,464	4,732	xxx	xxx	xxx
	Contract and commission work.....	1,215	1,230	989	xxx	xxx	xxx
	Scrap and salable refuse.....	4,616	2,772	1,701	xxx	xxx	xxx
	Value of resales.....	5,175	3,462	2,042	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies. <sup>†</sup>Revised.

<sup>1</sup>Includes values for those industries for which separate data could not be published without revealing the operations of individual companies. The symbol "D" appears in the appropriate column for such industries. The 335-- total for "Other industries," therefore is less than the detail shown by product class.

<sup>2</sup>Includes over \$2 million shipped by Industry 3315, Steel Wire Drawing.

<sup>3</sup>Includes over \$2 million shipped by each of the following Industries: 3312, Blast Furnaces and Steel Mills; 3341, Secondary Nonferrous Metals; and 3661, Telephone; Telegraph Apparatus.

<sup>4</sup>Includes over \$2 million shipped by Industry 3585, Refrigeration Machinery.

<sup>5</sup>This figure does not include the values for aluminum-base alloys produced by industries other than 3352, Aluminum Rolling and Drawing. (See Industries 3334, Primary Aluminum and 3341, Secondary Nonferrous Metals, in final industry report MC58(2)-33C, Smelting and Refining of Nonferrous Metals and Alloys.)

<sup>6</sup>Includes over \$2 million shipped by each of the following Industries: 3312, Blast Furnaces and Steel Mills; 3317, Steel Pipe and Tubes; 3339, Primary Nonferrous Metals, NEC; 3629, Electrical Industrial Goods, NEC; 3643, Current Carrying Devices; 3661, Telephone; Telegraph Apparatus; 3912, Jewelers' Findings and Materials.

<sup>7</sup>Includes over \$2 million shipped by each of the following Industries: 3351, Copper Rolling and Drawing; 3352, Aluminum Rolling and Drawing.

<sup>8</sup>Includes \$50,113 thousand shipped by Industry 3481, Fabricated Wire Products, NEC.

<sup>9</sup>Includes the total for the nonferrous portion of product class 34817, Wire cloth and other woven wire products, not produced by nonferrous wire drawers, which is primary to Industry 3481.

<sup>10</sup>Includes \$48,976 thousand shipped by Industry 3699, Electrical Products, NEC.

<sup>11</sup>Includes the total of product class 36996, Appliance wire and cord, and flexible cord sets, not produced by nonferrous wire drawers, which is primary to Industry 3699.

<sup>12</sup>Includes over \$2 million shipped by Industry 3621, Motors and Generators.

<sup>13</sup>Includes values for those product classes for which separate data could not be published without revealing the operations of individual companies. The symbol "D" appears for such items.

<sup>14</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33620, Copper and copper-base alloy castings; 34510, Screw machine products; 34613, Automotive Stampings; and 35441, Special dies and tools.

<sup>15</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 33920, Nonferrous forgings; 34110, Metal cans; 34422, Metal window sash and frames (except storm sash); 34491, Ornamental and structural metal work; 34811, Noninsulated wire rope cable and strand not produced by wire drawers; 34990, Fabricated metal products, nec.

<sup>16</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 28199, Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, nec; 28993, Essential oils, fireworks and pyrotechnics, chemical and chemical preparations, nec; 33397, Other primary nonferrous metals, including magnesium, smelted or refined; 36232, Arc welding electrodes, metal; 36292, Rectifying apparatus; 36430, Current carrying devices, including lightning rods; 37224, Aircraft engine parts.

<sup>17</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 30793, Molded plastic products; 35595, Other special industry machinery and equipment; 36211, Fractional horsepower motors; 36992, Lamp bulb components (except glass blanks) and electrical products.

<sup>18</sup>Receipts for "Other contract work" are included with "All other miscellaneous receipts."

<sup>19</sup>Includes over \$2 million shipped by each of the following Industries: 3461, Metal Stampings; 3634, Electrical Housewares and Fans; 3635, Household Vacuum Cleaners; and 3717, Motor Vehicles and Parts.

<sup>20</sup>Includes over \$2 million shipped by each of the following Industries: 3323, Steel Foundries; 3351, Copper Rolling and Drawing; 3566, Power Transmission Equipment; and 3717, Motor Vehicles and Parts.

<sup>21</sup>Includes over \$2 million shipped by Industry 3494, Valves and Pipe Fittings.

<sup>22</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35531, Woodworking machinery, including parts, attachments, and accessories; and 35990, Carburetors, pistons, and other machine shop products.

<sup>23</sup>Includes over \$2 million or more for product class 35663, Other mechanical power transmission equipment, which is withheld to avoid disclosing individual company figures.

<sup>24</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 34980, Fabricated pipe and fittings; and 34990, Fabricated metal products, nec.

Table 6A.—Quantity and Value of Products Shipped by All

Product code	Product	1958								Produced and consumed in the same plant in the manufacture of other products	Shipments of products manufactured from materials owned by others	
		Receipts <sup>1</sup>	Total shipments including inter-plant transfers		Commercial shipments		Interplant transfers					
			Quantity	Value	Quantity	Value	Quantity	Value				
		(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)		
1 3351---	Copper rolling and drawing, total <sup>2</sup> .....	xxx	xxx	1,034,397	xxx	(NA)	xxx	(NA)	xxx	xxx		
2 33511--	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission.....	(D)	45,383	47,846	39,733	42,988	5,650	4,858	(D)	(D)		
3 3351111	Unalloyed copper wire.....	(D)	8,836	7,368	6,697	5,673	2,139	1,695	(D)	(D)		
4 3351131	Copper-base alloy wire.....	(D)	36,547	40,478	33,036	37,315	3,511	3,163	(D)	(D)		
5 33512--	Rolled, drawn, and extruded copper and copper-base alloy mill products.....	(NA)	(NA)	986,551	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)		
6 3351211	Copper, unalloyed:											
7 3351213	Rod and bar.....	498,313	272,562	170,294	164,498	109,625	108,064	60,669	3,131	262,420		
8 3351215	Plate, sheet, and strip.....	(D)	64,911	64,421	60,783	62,106	4,128	2,315			(D)	(D)
	Pipe and tube.....	19,507	221,503	260,807	210,694	251,952	10,809	8,855			(D)	(D)
9 3351231	Copper-base alloys:											
10 3351233	Rod and bar.....	29,174	215,890	138,608	178,246	118,801	37,644	19,807	3,131	1,971		
11 3351235	Shapes, drawn and extruded.....	(D)	33,146	31,098	25,979	22,876	7,167	8,222			(D)	(D)
12 3351237	Plate, sheet, and strip (includes military cups and disks--net weight). Pipe and tube.....	(D)	223,408	213,310	194,788	189,730	28,620	23,580			(D)	(D)
13 3351200	Rolled, drawn, and extruded copper and copper-base alloy mill products, nsk...	(NA)	(NA)	3,034	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)		
14 3352---	Aluminum rolling and drawing, total <sup>3</sup> .....	xxx	xxx	1,472,252	xxx	(NA)	xxx	(NA)	xxx	xxx		
15 33521--	Aluminum and aluminum-base alloy wire and cable (including ACSR).....	(NA)	131,130	100,921	(NA)	(NA)	(NA)	(NA)	(NA)	(D)		
16 33521--		Made in aluminum rolling mills (Industry 3352).....	(NA)	55,440	46,896	53,460	44,625	1,980	2,271	(NA)	(D)	
17 33571--	Made in nonferrous wire drawing (Industry 3357) and other industries...	(NA)	75,690	54,025	67,266	46,826	8,424	7,199	(NA)	(D)		
18 3352111	Bare wire conductor.....	(NA)	17,776	13,395	9,479	6,346	8,297	7,049	(NA)	(D)		
19 3357111		(NA)	20,746	25,134	18,639	22,713	2,107	2,421	(NA)	...		
20 3352151	Bare wire, other than conductor.....	(NA)										
21 3357151		(NA)										
22 3352111	Made in aluminum rolling mills:											
23 3352151	Bare wire conductor.....	(NA)	14,087	17,372	12,107	15,101	1,980	2,271	(NA)	(D)		
24 3357111	Bare wire, other than conductor.....	(NA)	24,435	21,157	16,011	13,958	8,424	7,199	(NA)	(D)		
25 3352161	Aluminum cable-steel reinforced (ACSR) and other bare aluminum cable.....	(NA)	5,692,608	62,392	(NA)	(NA)	(NA)	(NA)	(NA)	(D)		
26 3357181		(NA)	41,353	29,524	(NA)	(NA)	(NA)	(NA)	(NA)	(D)		
27 33522--	Made in aluminum rolling mills.....	(NA)	51,255	32,868	(NA)	(NA)	(NA)	(NA)	(NA)	(D)		
28 3352213	Made in nonferrous wire drawing and other industries.....	(NA)										
29 3352215	Aluminum plate and sheet (including foil stock).....	(NA)	(NA)	646,064	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)		
30 3352223	Plate (.250" and over):											
31 3352225	Heat-treatable.....	(NA)	32,641	36,227	27,513	31,604	5,128	4,623	(NA)	(NA)		
32 3352227	Nonheat-treatable.....	(NA)	20,378	19,353	15,747	15,687	4,631	3,666	(NA)	(NA)		
33 3352228	Sheet:											
34 3352251	Flat, heat-treatable.....	(NA)	59,217	67,004	(D)	(D)	(D)	(D)	(NA)	(NA)		
35 3352200	Flat, nonheat-treatable.....	(NA)	179,290	163,938	160,290	147,792	19,000	16,146	(NA)	(NA)		
	Coiled, heat-treatable.....	(NA)	5,917	5,893	5,917	5,893	...	...	(NA)	(NA)		
	Coiled, nonheat-treatable.....	(NA)	335,017	276,002	286,766	238,232	48,251	37,770	(NA)	(NA)		
	Foil stock.....	(NA)	105,696	74,545	22,404	16,177	83,292	58,368	(NA)	(NA)		
	Aluminum plate and sheet, nsk.....	(NA)	(NA)	3,102	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)		
36 33523--	Plain aluminum foil <sup>7</sup> .....	(NA)	(1,000 lbs.)	(1,000 lbs.)	(1,000 lbs.)	(1,000 lbs.)	(1,000 lbs.)	(1,000 lbs.)	(1,000 lbs.)	(1,000 lbs.)		
37 3352311	Condenser foil.....	(NA)	185,511	140,472	xxx	xxx	xxx	xxx	xxx	xxx		
38 3352315	All other plain foil.....	(NA)	6,913	7,104	xxx	xxx	xxx	xxx	xxx	xxx		
39 3352321	Foil in lamination.....	(NA)	137,996	96,581	xxx	xxx	xxx	xxx	xxx	xxx		
		(NA)	2040,602	2036,787	xxx	xxx	xxx	xxx	xxx	xxx		
40 33524--	Rolled aluminum rod, bar (includes continuous cast) and structural shapes.....	(NA)	(Short tons)	(Short tons)	(Short tons)	(Short tons)	(Short tons)	(Short tons)	(Short tons)	(Short tons)		
41 3352411	Aluminum rod and bar, rolled and continuous cast.....	(NA)	135,610	110,523	(D)	(D)	(D)	(D)	(NA)	(NA)		
42 3352431	Aluminum rolled structural shapes.....	(NA)	130,210	104,286	72,377	63,521	57,833	40,765	(NA)	(NA)		
		(NA)	5,400	6,237	(D)	(D)	(D)	(D)	(NA)	(NA)		

See footnotes at end of table.



33D-19

[illegible]

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing

Product code	Product	1958								Produced and consumed in the same plant in the manufacture of other products (short tons)	Shipments of products manufactured from materials owned by others (short tons)
		Receipts <sup>1</sup>	Total shipments including inter-plant transfers		Commercial shipments		Interplant transfers				
			Quantity	Value	Quantity	Value	Quantity	Value			
		(short tons)	(short tons)	(\$1,000)	(short tons)	(\$1,000)	(short tons)	(\$1,000)			
1 3352---	Aluminum rolling and drawing--Continued										
3352511	Extruded aluminum rod and bar and other extruded aluminum shapes (except tube)...	(NA)	268,954	272,107	245,086	251,180	23,868	20,927	(NA)		
2 33526--	Aluminum tube and other rolled, drawn, or extruded mill products.....	(NA)	72,115	89,555	(D)	(D)	(D)	(D)	(NA)		
3 3352651	Extruded.....	(NA)	33,185	38,869	(D)	(D)	(D)	(D)	(NA)		
4 3352653	Drawn.....	(NA)	31,832	44,240	(D)	(D)	(D)	(D)	(NA)		
5 3352655	Welded.....	(NA)	7,098	6,446	(D)	(D)	(D)	(D)	(NA)		
6 33520--	Aluminum-base alloys and aluminum and aluminum-base alloy mill products (rolled, drawn, and extruded), nsk.....	(NA)	xxx	112,610	xxx	(NA)	xxx	(NA)	xxx	(NA)	
7 3352011	Aluminum-base alloys <sup>9</sup> .....	(NA)	186,791	101,739	101,615	54,343	85,176	47,396	xxx	(NA)	
8 3352000	Aluminum and aluminum-base alloy mill products, nsk.....	xxx	xxx	10,871	xxx	(NA)	xxx	(NA)	xxx	xxx	
9 3356---	Rolling, drawing, and extruding of nonferrous metals, except copper and aluminum, total..	(NA)	(NA)	428,210	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
10 3356041	Magnesium and magnesium-base alloys <sup>9</sup> : Plate, sheet, and strip.....	(D)	9,564	19,879	5,336	10,465	4,228	9,414	...	...	
11 3356045	Extruded shapes (including forging stock)										
12 3356051	Lead and lead-base alloys: Plate, sheet, and strip.....	(NA)	19,005	6,432	(D)	(D)	(D)	(D)	...	(D)	
13 3356055	Pipe and tubing, traps, and bends.....	(NA)	21,580	7,992	(D)	(D)	(D)	(D)	...	(D)	
14 3356059	Other rolled, drawn, or extruded lead products.....	(NA)	8,067	5,491	(D)	(D)	(D)	(D)	...	...	
	Nickel and nickel-base alloys (including monel):										
15 3356061	Plate, sheet, and strip(excluding monel)	(NA)	8,124	29,086	(D)	(D)	(D)	(D)	...	...	
16 3356063	Pipe and tubing (excluding monel).....	(NA)	3,543	12,386	(D)	(D)	(D)	(D)	...	...	
17 3356065	Monel, all shapes and forms.....	(NA)	28,183	69,987	(D)	(D)	(D)	(D)	...	...	
18 3356069	Other, excluding monel (including rods and bars).....										
19 3356071	Zinc and zinc-base alloys (including plate, sheet, strip, rods, bars, pipe and tubing)..  Titanium:	(NA)	36,536	15,614	34,973	15,137	1,563	477	(D)	...	
20 3356072	Ingot.....	(NA)	(NA)	14,765	(D)	(D)	(D)	(D)	...	...	
21 3356075	Mill products <sup>10</sup> (sheet, plate, tubing, bar, etc.).....	(NA)	(NA)	55,916	(D)	(D)	(D)	(D)	(D)	...	
22 3356081	} Other nonferrous metal wire.....	(NA)	(NA)	33,177	(NA)	(D)	(NA)	(D)	(NA)	...	
3357311		(NA)	(NA)	7,850	(D)	(D)	(D)	(D)	(NA)	...	
23 3356081	Made in rolling and drawing, nec (Industry 3356).....	(NA)	(NA)	1225,327	(NA)	(D)	(NA)	(D)	(NA)	...	
24 3357311	Made in nonferrous wire drawing (Industry 3357) and other industries.....	(NA)	(NA)	143,205	(NA)	(NA)	(NA)	(NA)	(D)	...	
25 3356091	Other nonferrous metals.....	(NA)	(NA)	14,280	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
26 3356000	Other nonferrous metals, nsk.....	(NA)	(NA)	1,680,824	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
27 3357---	Nonferrous wire drawing, etc., total.....	(NA)	(NA)	1,680,824	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
28 33571--	} Aluminum and aluminum-base alloy wire and cable (including ACSR).....	(NA)	131,130	100,921	(NA)	(NA)	(NA)	(NA)	(NA)	(D)	
33521--		(NA)	(NA)	156,493	(D)	(D)	(D)	(D)	(D)	(D)	
29 33572--	Copper and copper-base alloy wire (including strand and cable) bare and tinned, for electrical transmission.....	(NA)	(NA)	156,493	(D)	(D)	(D)	(D)	(D)	(D)	
30 3357211	Copper wire, bare and tinned: For electrical transmission.....	3,887	172,920	131,117	89,477	74,243	83,443	56,874	438,061	4,355	
31 3357251	Copper-base alloy wire: For electrical transmission.....	(NA)	5,185	4,575	4,376	3,818	809	757	28,350	...	
32 3357271	Copper strand and cable, except insulated.....	(NA)	23,874	20,375	9,664	9,665	14,210	10,710	(D)	(D)	
33 3357200	Other copper and copper-base alloy wire, nsk.....	xxx	xxx	426	xxx	(NA)	xxx	(NA)	xxx	xxx	

See footnotes at end of table.



## 33D-21

[illegible]

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3357---	Nonferrous wire drawing, etc.--Continued					
33573-- 33560pt 34817pt	Other nonferrous metal wire, except insulated (including woven wire products).....		xxx	101,735	(NA)	(NA)
33573-- 33560pt 34817pt	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	43,772	(NA)	(NA)
	Made in rolling and drawing, nec (Industry 3356).....		(NA)	7,850	(NA)	(NA)
	Made in fabricated wire products, nec (Industry 3481) and other industries.....		xxx	50,113	(NA)	(NA)
3357311 3356081	Other nonferrous metal wire, except insulated.....		(NA)	<sup>14</sup> 33,177	(NA)	22,180
	Woven wire products:					
	Insect wire screening, nonferrous:					
3357323 3481713	Copper and copper-base alloy.....	1,000 sq. ft.	(NA)	2,921	53,792	5,102
3357323	Made in nonferrous wire drawing, etc.....	...do.....	3,607	350	(NA)	(NA)
3481713	Made in fabricated wire products, nec, and other industries:					
	Quantity reported.....	...do.....	23,792	1,982	(NA)	(NA)
	Quantity not reported.....	...do.....	xxx	589	(NA)	(NA)
3357325 3481715	Aluminum.....	1,000 sq. ft.	305,356	18,239	212,874	16,279
3357325 3481715	Made in nonferrous wire drawing, etc.....	...do.....	107,875	6,478	(NA)	(NA)
	Made in fabricated wire products, nec, and other industries.....	...do.....	197,481	11,761	(NA)	(NA)
3357329 3481719	Nonferrous metal, excluding copper, copper-base alloy and aluminum..		xxx	( <sup>15</sup> )	(NA)	125
3357351 3481751	Paper machine wire cloth (fourdrinier and cylinder).....	1,000 sq. ft.	29,343	39,364	17,814	20,690
3357365 3481765	Industrial wire cloth, nonferrous:					
	Quantity reported.....	...do.....	8,496	5,599	9,250	7,407
	Quantity not reported.....	...do.....	xxx	1,435	xxx	1,421
3357300	Other woven wire products and woven wire products, nsk.....		xxx	<sup>15</sup> 1,000	xxx	(NA)
Value (\$1,000)						
			1958		1954	
33574--	Communication wire and cable.....		365,373		248,373	
3357413	Coaxial cable, lead or aluminum sheathed and flexible.....		15,133		12,907	
3357421	Lead and hook-up wire.....		31,023		12,850	
3357431	Drop and bridle wire.....		16,781		19,548	
3357441	Distribution and jumper wire.....		20,002		10,296	
3357451	Inside and duct telephone wire.....		8,357		6,427	
3357471	Switchboard cable.....		22,629		15,185	
3357473 3357475	Lead-covered telephone cable (except coaxial):					
	Paper and pulp insulated.....		52,438			
	Polyethylene insulated.....					
3357481 3357485	Polyethylene-covered telephone cable (except coaxial):					
	Paper and pulp insulated.....		60,890			
	Polyethylene insulated.....		92,945			171,160
3357498 3357400	Other communication wire and cable.....		42,689			
	Communication wire and cable, nsk.....		2,486			...
33576-- 36996--	Appliance wire and cord and flexible cord sets.....		127,069		108,609	
33576-- 36996--	Made in nonferrous wire drawing, etc. (Industry 3357).....		66,199			
	Made in electric products, nec (Industry 3699) and other industries.....		60,870			108,609
3357611 3699611	Flexible cord sets.....		48,169		40,609	
3357611 3699611	Made in nonferrous wire drawing, etc. (Industry 3357).....		20,881			
	Made in electrical products, nec (Industry 3699) and other industries.....		27,288			40,609
3357621 3699621	Appliance wire and cord:					
	Fixture wire (including heat resistant).....		8,405		10,551	
3357621 3699621	Made in nonferrous wire drawing, etc. (Industry 3357).....		6,549			
	Made in electrical products, nec (Industry 3699) and other industries.....		1,856			10,551
3357622 3699622	Flexible cord (including heater cord):					
	Rubber insulated.....		16,205		22,643	
3357622 3699622	Made in nonferrous wire drawing, etc. (Industry 3357).....		14,825			
	Made in electrical products, nec (Industry 3699) and other industries.....		1,380			22,643

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value (\$1,000)	
		1958	1954
3357--	Nonferrous wire drawing, etc.--Continued		
33570--	Appliance wire and cord and flexible cord sets--Continued		
36990--			
	Appliance wire and cord--Continued		
	Flexible cord (including heater cord)--Continued		
3357625	Thermoplastic insulated.....	10,925	10,515
3699625			
3357625	Made in nonferrous wire drawing, etc. (Industry 3357).....	9,829	10,515
3699625	Made in electrical products, nec (Industry 3699) and other industries.....	1,096	
3357629	Other appliance wire and cord.....	36,173	22,068
3699629			
3357629	Made in nonferrous wire drawing, etc. (Industry 3357).....	11,481	22,068
3699629	Made in electrical products, nec (Industry 3699) and other industries.....	24,692	
3357600	Appliance wire and cord and flexible cord sets, nsk.....	7,192	2,223
3699600			
3357600	Made in nonferrous wire drawing, etc. (Industry 3357).....	2,634	2,223
3699600	Made in electrical products, nec (Industry 3699) and other industries.....	4,558	
33577--	Magnet wire.....	183,382	174,092
	Enameled, including synthetic resin enamels (includes combinations of enameled with other coverings):		
	Enameled only:		
3357720	Shipped to other companies.....	98,804	126,508
3357722	Transferred to other plants of your company.....	40,157	
	Enameled and covered:		
3357723	Shipped to other companies.....	10,236	16,569
3357724	Transferred to other plants of your company.....	2,965	
	Not enameled:		
	Glass covered:		
3357725	Shipped to other companies.....	9,575	10,758
3357726	Transferred to other plants of your company.....		
	Other:		
3357728	Shipped to other companies.....	9,850	20,257
3357729	Transferred to other plants of your company.....	7,767	
3357700	Magnet wire, nsk.....	4,028	...
33578--	Power wire and cable.....	194,761	172,680
	Under 601 volts:		
3357811	Portable power cables.....	19,705	19,896
3357813	Varnished cambric insulated (includes varnished cambric building wire).....	3,280	4,468
3357815	Thermoplastic.....	11,202	5,310
3357817	Rubber insulated (except building wire).....	55,808	*43,361
3357818	Asbestos and asbestos-varnished cambric.....	5,737	6,190
3357819	Other power wire and cable, under 601 volts.....	1,740	9,267
	601 volts and higher:		
3357831	Portable power cables.....	5,751	5,104
3357833	Varnished cambric insulated.....	6,581	9,454
3357835	Paper insulated.....	39,146	40,453
3357837	Rubber insulated.....	37,903	26,095
3357838	Thermoplastic.....	5,359	3,082
3357839	Other power wire and cable, 601 volts and higher.....	2,549	
33579--	Other insulated wire and cable, nec.....	441,913	431,553
3357911	Signal wire and cable.....	7,411	18,452
3357915	Control wire and cable.....	21,742	(18)
	Weatherproof and slow burning wire:		
3357931	Braided (includes slow burning).....	16,478	42,225
3357937	Polychloroprene (neoprene) covered.....	11,527	*13,409
3357939	Other (includes thermoplastic covered, etc.).....	9,983	4,166
	Building wire and cable (having underwriters' labels), except varnished cambric insulated:		
3357941	Rubber insulated fibrous covered and/or neoprene jacketed (including lead-covered)....	56,653	*59,252
3357942	Metallic armored cable.....	16,610	19,244
3357943	Nonmetallic sheathed cable.....	66,330	56,318
	Service cable (includes self-supporting type, but excludes service-entrance cable):		
3357944	Rubber.....	11,731	*13,458
3357945	Thermoplastic insulated.....	16,322	*13,152
3357946	Service-entrance cable.....	18,109	21,428
3357948	Thermoplastic (no braid).....	52,844	*31,525
3357949	Other building wire and cable (except varnished cambric insulated).....	10,118	*11,162
	Automotive and aircraft type wire and cable:		
3357973	Aircraft wire, other than ignition.....	13,702	10,199
3357975	Insulated battery, starter, and other primary wire and cable (except cable sets).....	14,365	5,927
3357979	Other automotive and aircraft type wire and cable, including secondary ignition (except cable sets, harness sets, and noninsulated battery cable).....	3,279	17,039
3357989	Marine wire and cable (U. S. Navy and Merchant Marine).....	10,187	25,558
3357998	Other insulated wire and cable.....	83,598	1663,298
3357900	Insulated wire and cable, other than communication wire and cable, nsk.....	924	5,741
3357000	Drawn and insulated nonferrous wire, nsk.....	9,177	...

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3361---	Aluminum castings, total <sup>17</sup> .....	xxx	399,605	xxx	(NA)
	Aluminum and aluminum-base alloy castings:				
3361011	Sand.....	50,569	101,680	64,306	117,796
3361031	Permanent and semipermanent mold.....	71,965	82,048	79,709	95,526
3361041	Die.....	106,234	142,345	86,417	116,532
3361051	Investment.....	197	2,698	} 2,597	14,841
3361061	Other.....	(NA)	15,069		
	Finished products of aluminum foundries:				
3361071	Pressure cookers, except steam commercial.....	} xxx	7,633	xxx	(NA)
3361075	Cast aluminum cooking utensils, except pressure cookers (household, commercial, and institutional).....				
3361000	Aluminum and aluminum-base alloy castings, nsk.....	xxx	48,132	xxx	<sup>18</sup> 53,693
3362---	Brass, bronze, copper castings, total <sup>17</sup> .....	xxx	222,755	xxx	(NA)
	Copper and copper-base alloy castings:				
3362011	Sand.....	116,359	148,270	164,256	173,387
3362031	Permanent and semipermanent mold.....	3,584	7,501	6,919	8,262
3362041	Die.....	1,117	2,533	2,424	4,443
3362051	Investment.....	234	3,754	} 6,888	15,478
3362061	Other.....	4,999	10,928		
3362071	Bearings and bushings, nonferrous, nonmachined.....	xxx	21,205	xxx	<sup>19</sup> 27,203
3362000	Copper and copper-base alloy castings, nsk.....	xxx	28,764	xxx	(NA)
3369---	Nonferrous castings, nec, total <sup>17</sup> .....	xxx	233,236	xxx	(NA)
	Magnesium and magnesium-base alloy castings:				
3369011	Sand.....	7,782	44,353	8,316	45,153
3369031	Die.....	(NA)	4,532	(NA)	4,520
3369041	Other, including permanent and semipermanent mold (except cast anodes).....	(NA)	4,577	(NA)	4,300
	Zinc and zinc-base alloy castings:				
3369051	Die.....	119,783	132,897	114,417	112,125
3369061	Other.....	(NA)	702	(NA)	2,817
3369071	Lead and lead-base alloy die castings.....	(NA)	3,737	(NA)	4,925
3369098	Other nonferrous metal castings (including die castings).....	(NA)	32,661	(NA)	42,088
3369000	Nonferrous castings, nec, nsk.....	xxx	9,777	xxx	(NA)

\*Revised. <sup>†</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents receipts for nonferrous metal mills and nonferrous wire drawing establishments.<sup>2</sup>Data are also shown in Current Industrial Reports (formerly Facts for Industry) Series BDSAF-84, "Shipments of Copper-Base Mill and Foundry Products."<sup>3</sup>Data are also shown in Current Industrial Reports (formerly Facts for Industry) Series M33-2, "Aluminum Ingot and Mill Products, and Magnesium Mill Products."<sup>4</sup>Primarily represents consumption of bare aluminum wire (conductor) in the production of aluminum cable-steel reinforced (ACSR).<sup>5</sup>Data for ACSR and aluminum cable, bare, are also published monthly in Current Industrial Reports (formerly Facts for Industry) Series M33-2, "Aluminum Ingot and Mill Products, and Magnesium Products." Net quantity of shipments as reported in this series for the year 1958 and 1954 totaled 87,424 short tons and 73,560 short tons, respectively. However, these quantities represent aluminum content only. The 92,608 short tons and 98,712 short tons reported in the Census of Manufactures for 1958 and 1954, respectively, represent gross weight.<sup>6</sup>Excludes an unspecified amount of ACSR produced on a toll basis. This tonnage is included in the Current Industrial Reports.<sup>7</sup>Quantity figures are shown in terms of metal weight.<sup>8</sup>Differs from quantity data published in Current Industrial Reports (formerly Facts for Industry) Series M33-2, "Aluminum Ingot and Mill Products, and Magnesium Mill Products," in that no data are included in the plain aluminum foil figures for that quantity of plain foil which is produced and converted in the same establishment. As shown in Current Industrial Reports, net shipments of aluminum foil totaled 200 million pounds in 1958 and 153 million pounds in 1954.<sup>9</sup>Represents aluminum-base alloys made only by establishments classified in Industry 3352, Aluminum Rolling and Drawing, See Industries 3334 and 3341 for production by other industries.<sup>10</sup>Data are also shown in Current Industrial Reports (formerly Facts for Industry) Series BDSAF-263, "Titanium Ingot and Mill Products."<sup>11</sup>Interplant transfers are included with commercial shipments.<sup>12</sup>Includes \$20,371 thousand produced in Industry 3357, Nonferrous Wire Drawing, Etc.<sup>13</sup>For detailed data see products of Industry 3352 above.<sup>14</sup>For detailed data see products of Industry 3356 above.<sup>15</sup>Nonferrous metal insect wire screening, other than copper, copper-base alloy and aluminum (product codes 3357329, 3481719) is included with product code 3357300.<sup>16</sup>Control wire and cable included in code 3357998 in 1954.<sup>17</sup>These data differ from the tonnage data published in the Current Industrial Reports (formerly Facts for Industry) Series M33E, Nonferrous Castings, in that no data are included for castings produced by captive foundry departments of plants classified in other industries. In addition, certain products are reported as castings in the monthly survey which in the Census of Manufactures are classified as finished products in other industries.<sup>18</sup>Includes aluminum, copper, magnesium, lead, zinc, and other nonferrous metal castings, nsk.<sup>19</sup>Represents pressure cookers, except steam commercial; other cast aluminum cooking utensils; and bushings, automotive and nonautomotive types.<sup>20</sup>Includes an indeterminate quantity of laminated foil produced in foil mills. Laminated foil made from purchased aluminum foil totaled 16,225,000 pounds metal content valued at \$17,497,000.



NONFERROUS METAL MILL AND FOUNDRY PRODUCTS

33D-25

Table 6B.—Net Shipments of Nonferrous Metal Rolled, Drawn and Extruded Products: 1958 and 1954

(Short tons)

Product code	Product	1958	1954
	Copper and copper-base alloy rolled, drawn and extruded products (including wire), total <sup>1</sup> ..	<sup>2</sup> 1,562,080	<sup>2</sup> 1,622,192
3351---	Copper and copper-base alloy rolled, drawn and extruded mill products.....	<sup>2</sup> 892,682	<sup>2</sup> 943,343
	Copper unalloyed:		
3351211	Rod and bar.....	36,669	28,269
3351111	Wire, other than conductor.....	<sup>3</sup> 9,689	( <sup>4</sup> )
3351213	Plate, sheet, and strip.....	68,885	121,583
3351215	Pipe and tube.....	210,082	195,631
	Copper-base alloy:		
3351231	Rod and bar.....	188,687	196,083
3351131	Wire, other than conductor.....	<sup>3</sup> 37,167	( <sup>4</sup> )
3351233	Shapes, drawn and extruded.....	33,790	22,699
3351235	Plate, sheet, and strip.....	232,570	310,192
3351237	Pipe and tube.....	75,143	68,283
33572--	Copper and copper-base alloy wire (including strand and cable), bare and tinned, for electrical transmission.....	669,398	682,452
3357211	Copper wire for electrical transmission.....	<sup>3</sup> 611,449	} <sup>4</sup> 624,272
3357251	Copper-base alloy wire for electrical transmission.....	<sup>3</sup> 33,535	
3357271	Copper strand and cable, except insulated.....	24,414	
3352---	Aluminum mill products (including wire), total <sup>5</sup> ..	1,298,558	1,043,281
	Sheet and plate, nonheat-treatable.....	472,202	384,087
	Sheet and plate, heat-treatable.....	104,558	121,822
	Foil, including foil in lamination.....	99,779	76,629
	Rolled and continuous cast rod and bar.....	<sup>6</sup> 37,812	<sup>6</sup> 71,826
	Wire, bare, conductor and nonconductor.....	22,114	22,778
	ACSR and aluminum cable, bare.....	87,423	73,560
	Wire and cable, insulated or covered.....	25,509	12,477
	Extruded shapes, soft alloys.....	346,762	192,918
	Extruded shapes, hard alloys.....	24,920	31,898
	Drawn tube, soft alloys.....	29,911	26,765
	Drawn tube, hard alloys.....	} 9,339	} 5,069
	Welded tube, nonheat-treatable.....		
	Powder and paste:		
	Atomized and grained powder.....	3,298	14,957
	Flaked powder.....	1,858	1,820
	Paste.....	7,658	6,675
	Forgings (including impact extrusions).....	<sup>6</sup> 25,415	( <sup>6</sup> )
	Magnesium mill products <sup>5</sup> .....	9,351	6,872

<sup>1</sup>Net shipments data for copper and copper-base alloy mill products were derived by subtracting nonferrous metal mill and wire drawing establishments' receipts of each mill shape from the total of the following: (1) total shipments; (2) production on toll basis; and (3) produced and consumed in the same plant in the production of insulated wire and other fabricated products.

<sup>2</sup>Excludes 3,131 tons for 1958 and 15,897 tons for 1954 of copper and copper-base alloy mill products produced and consumed in the same plant in the production of fabricated products. Most of this quantity for 1954 represented alloy rod and bar.

<sup>3</sup>Excludes a total of 23,280 tons of copper and copper-base alloy wire for redrawing (code 335217) shown in table 7, Materials Consumed by Kind, for Industry 3357.

<sup>4</sup>Data for copper and copper-base alloy wire, other than conductor, are included with wire for electrical transmission for 1954.

<sup>5</sup>Net shipments shown in this table are from Current Industrial Reports (formerly Facts for Industry), Series M33-2, Aluminum Ingot and Mill Products, and Magnesium Mill Products. Net shipments were derived by subtracting the sum of producers' receipts from other domestic producers of each mill shape from the industry's gross shipments of that shape.

<sup>6</sup>1954 data for some products, mainly rolled rod and bar, are not comparable with 1958 data due to the inclusion of forging stock shipments in 1954. For 1958, shipments of forgings instead of forging stock are reported.

Table 6C.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	
<u>Rolled, drawn, and extruded copper and copper-base alloy mill products (33512):</u> United States, total: 1958..... 986,551 1957..... 1,128,298 1956..... 1,517,746 1955..... 1,510,488 1954..... 1,123,540 1947..... 782,741 1958 <sup>1</sup>	1958 <sup>1</sup>	<u>Extruded aluminum rod, bar, and other extruded shapes, except tube (33525)--Continued</u>	1958	<u>Communication wire and cable (33574)--Continued</u>	1958 <sup>1</sup>	1954
		North Central.....	91,782	New England.....	51,972	( <sup>2</sup> )
		Ohio.....	18,413	Massachusetts.....	15,161	16,664
		Michigan.....	34,515	Connecticut.....	15,614	10,687
		South Atlantic.....	40,111	Middle Atlantic.....	124,919	94,923
		Florida.....	11,111	New Jersey.....	71,510	63,076
		East South Central.....	6,943	North Central.....	75,777	( <sup>2</sup> )
		West South Central.....	10,978	South and West.....	112,705	( <sup>2</sup> )
		West.....	68,244	<u>Appliance wire and cord and flexible cord sets (33576 and 36996):</u>	Value of shipments	
		<u>Aluminum tube and other rolled, drawn, or extruded mill products (33526):</u>		United States, total:		
New England.....	273,055	United States, total.....	89,555	1958.....		127,069
Connecticut.....	239,342	Northeast.....	30,129	1957.....		124,096
Middle Atlantic.....	279,529	New Jersey.....	6,066	1956.....		134,146
New York.....	107,048	North Central.....	22,100	1955.....		123,388
New Jersey.....	97,697	Michigan.....	2,212	1954.....		108,609
Pennsylvania.....	74,784	South Atlantic.....	7,775	1947.....		78,328
North Central.....	346,408	East South Central.....	5,001	1958 <sup>1</sup>	1954	
Ohio.....	66,645	West.....	24,550	New England.....	56,343	48,003
Illinois.....	87,033			Rhode Island.....	26,278	22,836
Michigan.....	94,711			Connecticut.....	15,910	14,817
South and West.....	87,559			Middle Atlantic.....	22,992	21,939
California.....	25,536			New York.....	17,117	11,393
	Value of shipments	<u>Nonferrous rolling and drawing, nec (33560):</u>		New Jersey.....	4,011	8,888
<u>Aluminum and aluminum-base alloy wire (including ACSR) (33521 and 33571):</u>	1958 <sup>1</sup>	United States, total.....	428,210	Pennsylvania.....	1,864	1,658
United States, total.....	100,921	New England.....	67,883	East North Central.....	30,237	34,983
Northeast.....	34,547	Massachusetts.....	17,789	Ohio.....	6,083	6,601
North Central.....	35,532	Connecticut.....	35,922	Indiana.....	8,804	14,979
	Value of shipments	Middle Atlantic.....	125,502	Illinois.....	11,627	9,427
<u>Aluminum plate and sheet (including foil stock) (33522):</u>		New York.....	43,487	West North Central.....	3,223	(NA)
United States, total:		New Jersey.....	43,628	South.....	1,558	(NA)
1958.....	646,064	Pennsylvania.....	38,387	Pacific.....	12,716	2,503
1957.....	636,176	North Central.....	139,619	California.....	12,716	2,503
1956.....	666,799	Ohio.....	61,936		Value of shipments	
1955.....	632,024	Illinois.....	43,206		1958 <sup>1</sup>	
1954.....	420,266	South and West.....	95,206	<u>Magnet wire (33577):</u>		
1953.....	466,286	California.....	7,853	United States, total.....		183,382
1952.....	358,958			New England.....		15,050
1951.....	343,813	<u>Copper and copper-base alloy wire (including strand and cable) bare and tinned, for electrical transmission (33572):</u>		Vermont.....		2,538
1950.....	329,580	United States, total.....	156,493	Connecticut.....		8,222
1949.....	222,576	New England.....	15,542	Middle Atlantic.....		34,207
1947.....	293,436	Middle Atlantic.....	89,175	New York.....		29,368
	1958 <sup>1</sup>	New Jersey.....	53,952	North Central.....		126,839
New England.....	10,969	North Central.....	40,908	Indiana.....		79,785
Connecticut.....	10,969	South and West.....	10,868	Michigan.....		18,725
Middle Atlantic.....	40,005			South and West.....		7,286
North Central.....	227,748	<u>Communication wire and cable (33574):</u>		<u>Power wire and cable (33578):</u>		
South and West.....	367,342	United States, total:		United States, total.....		194,761
California.....	13,338	1958.....	365,373	New England.....		74,822
	Value of shipments	1957.....	439,872	Massachusetts.....		32,143
<u>Extruded aluminum rod, bar, and other extruded shapes, except tube (33525):</u>	1958 <sup>1</sup>	1956.....	458,301	Middle Atlantic.....		95,127
United States, total.....	272,107	1955.....	356,847	New Jersey.....		57,812
New England.....	2,918	1954.....	248,373			
Middle Atlantic.....	51,131	1953.....	260,712			
Pennsylvania.....	38,895	1947.....	186,878			

See footnotes at end of table.



Table 6C.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Power wire and cable (33578)--Continued</u>	1958 <sup>1</sup>	<u>Aluminum and aluminum-base alloy castings (33610)--Continued</u>	1958 <sup>1</sup>	<u>Copper and copper-base alloy castings (33620)--Continued</u>	1958 <sup>1</sup>
North Central and South.....	17,929	West North Central.....	28,894	South Atlantic.....	4,484
Pacific.....	6,883	Minnesota.....	7,741	East South Central.....	2,208
California.....	6,883	Iowa.....	3,175	Alabama.....	1,674
<u>Other insulated wire and cable, nec (33579):</u>		Missouri.....	16,915	West South Central.....	4,669
United States, total.....	441,913	South Atlantic.....	9,947	Texas.....	3,588
New England.....	101,848	Georgia.....	1,506	Mountain.....	2,958
Massachusetts.....	21,777	East South Central.....	12,964	Colorado.....	2,260
Rhode Island.....	47,453	West South Central.....	12,575	Pacific.....	20,300
Middle Atlantic.....	176,387	Arkansas.....	7,135	California.....	17,597
New York.....	81,357	Texas.....	4,670	<u>Nonferrous castings, nec (33690):</u>	
New Jersey.....	65,798	Mountain.....	1,169	United States, total.....	233,236
Pennsylvania.....	29,232	Pacific.....	42,823	New England.....	8,676
North Central.....	115,602	Washington.....	1,359	Massachusetts.....	3,142
Illinois.....	14,705	Oregon.....	1,347	Connecticut.....	5,058
South.....	22,059	California.....	40,117	Middle Atlantic.....	50,964
Pacific.....	26,017	<u>Copper and copper-base alloy castings (33620):</u>		New York.....	17,579
California.....	26,017	United States, total.....	222,755	New Jersey.....	15,738
<u>Aluminum and aluminum-base alloy castings (33610):</u>		New England.....	16,948	Pennsylvania.....	17,647
United States, total.....	399,605	New Hampshire.....	2,011	East North Central.....	136,587
New England.....	19,289	Massachusetts.....	8,499	Ohio.....	31,318
Massachusetts.....	6,097	Connecticut.....	5,297	Indiana.....	8,137
Connecticut.....	12,120	Middle Atlantic.....	68,135	Illinois.....	36,619
Middle Atlantic.....	70,481	New York.....	25,105	Michigan.....	55,099
New York.....	27,638	New Jersey.....	8,959	Wisconsin.....	5,414
New Jersey.....	15,338	Pennsylvania.....	34,071	West North Central.....	11,185
Pennsylvania.....	27,505	East North Central.....	89,668	Minnesota.....	2,261
East North Central.....	201,463	Ohio.....	29,873	Missouri.....	7,374
Ohio.....	81,569	Indiana.....	6,308	South.....	4,390
Indiana.....	17,971	Illinois.....	19,666	Texas.....	3,163
Illinois.....	36,188	Michigan.....	19,891	West.....	21,434
Michigan.....	45,262	Wisconsin.....	13,950	California.....	19,528
Wisconsin.....	20,473	West North Central.....	13,385		
		Minnesota.....	1,937		
		Missouri.....	7,948		

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 33512, Massachusetts, Rhode Island, Indiana, Wisconsin, Maryland, Alabama, and Montana; 33521 and 33571, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Iowa, Missouri, Georgia, Florida, Tennessee, Alabama, Montana, Washington, and California; 33522, New Jersey, New Jersey, Ohio, Illinois, Michigan, Wisconsin, Iowa, Maryland, West Virginia, Tennessee, Alabama, and Washington; 33525, Massachusetts, New York, New Jersey, Indiana, Illinois, Maryland, Virginia, South Carolina, Georgia, Kentucky, Mississippi, Arkansas, Texas, Arizona, Washington, and California; 33526, Rhode Island, New York, Pennsylvania, Ohio, Indiana, Illinois, Maryland, West Virginia, Tennessee, Alabama, Arizona, and California; 33560, Maine, New Hampshire, Rhode Island, Indiana, Michigan, Maryland, West Virginia, Georgia, Texas, Nevada, Washington, and Oregon; 33572, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, Indiana, Illinois, Missouri, Georgia, and California; 33574, New Hampshire, Vermont, Rhode Island, New York, Pennsylvania, Indiana, Illinois, Nebraska, Maryland, North Carolina, Florida, Texas, and California; 33576 and 36996, Massachusetts, Michigan, and Missouri; 33577, Rhode Island, New Jersey, Pennsylvania, Ohio, Illinois, Missouri, Alabama and California; 33578, Rhode Island, Connecticut, New York, Pennsylvania, and Indiana; 33579, New Hampshire, Connecticut, Ohio, Indiana, Michigan, Missouri, West Virginia, Georgia, Tennessee, Alabama, and Texas; 33610, Florida, Kentucky, Alabama, and Mississippi; 33620, Kansas, West Virginia, and Oregon; 33690, Iowa.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958

Code	Description of materials	Quantity (short ton)	Delivered cost (\$1,000)	Quantity (short ton)	Delivered cost (\$1,000)	Quantity (short ton)	Delivered cost (\$1,000)
		INDUSTRY 3351 <sup>1</sup> —COPPER ROLLING AND DRAWING		INDUSTRY 3352 <sup>1</sup> —ALUMINUM ROLLING AND DRAWING		INDUSTRY 3356 <sup>1</sup> —ROLLING AND DRAWING, NEC	
	Materials, containers and supplies, total.....	xxx	700,162	xxx	995,669	xxx	270,272
	Nonferrous metals and alloys:						
333421	Aluminum, unalloyed.....	52,156	28,357	826,057	393,016	703	373
333423	Aluminum-base alloys.....	5,338	2,862	464,488	250,326	1,936	961
333113	Copper, unalloyed.....	687,096	373,826	1,493	765	4,249	2,472
333115	Copper-base alloys.....	144,726	75,110				
333211	Lead and lead-base alloys.....	2,916	726	...	...	109,336	30,156
333511	Magnesium and magnesium-base alloys.....	...	...	9,014	6,654	10,418	7,697
333925	Nickel and nickel-base alloys.....	2,588	3,802	...	...	28,646	36,325
333311	Zinc and zinc-base alloys.....	70,119	15,654	...	...	39,478	8,682
	Nonferrous scrap (purchased scrap only):						
941031	Aluminum and aluminum-base alloy.....	2,399	1,156	165,138	73,427	208	77
941021	Copper and copper-base alloy.....	257,846	102,317	840	420	...	...
941051	Zinc and zinc-base alloy.....	xxx	92,273	2,848	695	xxx	161,878
970099	All other materials, containers and supplies.....	xxx	4,079	xxx	242,049	xxx	
973000	Materials, containers, supplies, nsk.....	xxx		xxx	228,317	xxx	221,651
		INDUSTRY 3361—ALUMINUM CASTINGS		INDUSTRY 3362—BRASS, BRONZE, COPPER CASTINGS		INDUSTRY 3369—NONFERROUS CASTINGS, NEC	
	Materials, containers and supplies, total.....	xxx	173,536	xxx	101,504	xxx	80,438
331251	Pig iron.....	1,390	87	1,466	100	...	...
	Nonferrous metals and alloys:						
333421	Aluminum, unalloyed.....	32,713	15,234	854	401	4,321	1,888
333423	Aluminum-base alloys.....	164,110	77,211	7,342	3,432	15,637	6,465
333113	Copper, unalloyed.....	891	466	9,387	5,029	188	112
333115	Copper-base alloys.....	8,083	4,329	60,706	31,956	455	223
333511	Magnesium and magnesium-base alloys.....	2,059	1,548	...	...	8,968	5,754
333311	Zinc and zinc-base alloys.....	30,522	7,610	826	203	91,418	22,953
331311	} Ferro alloys.....	664	353	(NA)	391	...	...
331318							
	Scrap (purchased scrap only):						
941011	Iron and steel scrap.....	1,284	69	2,350	100	...	...
941031	Aluminum and aluminum-base alloy.....	35,004	10,733	131	43	...	...
941021	Copper and copper-base alloy.....	1,567	556	55,590	25,111	...	...
941051	Zinc and zinc-base alloy.....	...	...	...	...	(NA)	126
970099	All other materials, containers and supplies.....	xxx	31,997	xxx	17,937	xxx	31,083
973000	Materials, containers, supplies, nsk.....	xxx	223,343	xxx	216,801	xxx	211,834

Code	Description of materials	Unit of measure	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3357—NONFERROUS WIRE DRAWING, ETC.	
	Materials, containers and supplies, total.....		xxx	927,284
	Nonferrous metal mill shapes for drawing wire:			
	Rods:			
335251	Aluminum and aluminum-base alloy.....	1,000 pounds....	123,869	37,445
335151	Copper, unalloyed.....	do.....	792,231	225,432
335155	Copper-base alloy.....	do.....	54,012	15,028
	Wire for redrawing:			
339227	Aluminum and aluminum-base alloy.....	do.....	582	254
339217	Copper and copper-base alloy.....	do.....	46,559	15,197
339229	Other nonferrous wire.....	do.....	(NA)	1,704
	Bare wire (except wire for redrawing):			
335255	Aluminum and aluminum-base alloy.....	do.....	7,851	2,722
335123	Copper and copper-base alloy.....	do.....	279,520	105,578
	Other mill shapes and forms:			
335218	Aluminum and aluminum-base alloy.....	do.....	10,548	5,370
335119	Copper and copper-base alloy.....	do.....	10,928	5,654
335955	All other nonferrous metal mill shapes.....	do.....	15,675	5,147
333111	Copper and copper-base alloy refinery shapes (including wire bar).....	Short ton.....	r 205,344	r 109,690
	Rubber:			
086111	Natural.....	Long ton.....	3,531	2,629
282410	Synthetic.....	do.....	38,580	29,411
	Plastics:			
282331	Polyethylene, all forms.....	1,000 pounds....	90,058	36,906
282321	Vinyl, all forms.....	do.....	141,798	39,935
222111	Cotton yarns.....	do.....	18,042	12,640
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	r 258,066
973000	Materials, nsk.....		xxx	18,476

NA Not available. <sup>2</sup>Revised.

<sup>1</sup>Data exclude tonnages of nonferrous materials processed on a toll basis by establishments classified in Industries 3351, 3352, and 3356. Most of the material involved in toll processing is owned by establishments classified in other industries, principally Industry 3357, Nonferrous Wire Drawing, etc. As table 6A shows, unalloyed copper rod and bar (product code 3351211) is by far the most important mill product produced on a toll basis. Relatively small quantities of aluminum and other nonferrous metals are produced on toll.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."



**Table 8.--General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958**

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3351	COPPER ROLLING AND DRAWING (entire industry).....	105	40,329	222,259	31,792	63,291	165,367	445,371	775,650	1,209,926	30,617
	Establishments with:										
	90% or more specialization.....	74	25,406	141,231	20,301	40,013	106,206	292,494	456,923	743,852	18,173
	75-89% specialization.....	9	8,244	45,508	6,695	13,393	34,769	90,192	177,649	263,548	9,820
33511	Copper and copper-base alloy wire, bare and tinned for purpose other than electrical transmission (primary product class of estab.)..	7	734	3,218	588	1,158	2,459	5,829	7,227	13,223	( <sup>1</sup> )
33512	Rolled, drawn and extruded copper and copper-base alloy mill products (primary product class of estab.)..	87	39,390	218,156	31,019	61,748	162,146	438,284	767,403	1,194,375	30,022
	Establishments with:										
	90% or more specialization....	62	22,349	124,794	17,806	35,239	93,339	263,802	420,403	679,195	17,369
	75-89% specialization.....	7	6,296	35,789	5,156	10,597	28,060	71,901	141,912	213,112	1,526
3352	ALUMINUM ROLLING AND DRAWING (entire industry).....	185	46,879	272,168	36,443	75,323	199,643	537,086	1,057,370	1,562,381	114,195
	Establishments with:										
	90% or more specialization.....	145	33,834	199,595	26,481	54,632	148,326	383,422	773,180	1,132,115	104,157
	75-89% specialization.....	7	2,428	13,339	1,845	3,915	9,439	25,896	38,025	63,226	2,964
33522	Aluminum plate and sheet (including foil stock) (primary product class of estab.).....	46	17,995	112,067	14,587	30,471	86,627	249,524	518,198	747,470	93,121
	Establishments with:										
	90% or more specialization....	39	12,773	79,164	10,656	22,168	63,401	186,415	380,396	561,177	27,657
33523	Plain aluminum foil (primary product class of estab.).....	17	4,504	26,101	3,464	7,209	19,141	61,755	126,526	186,880	4,538
	Establishments with:										
	90% or more specialization....	6	1,392	8,036	1,021	2,249	6,065	22,231	38,611	59,760	1,381
	75-89% specialization.....	3	815	4,771	678	1,475	3,641	11,544	28,319	39,375	2,361
33525	Extruded aluminum rod, bar and other extruded shapes (primary product class of estab.).....	69	18,688	103,775	14,331	29,377	72,637	141,394	229,872	366,642	11,375
	Establishments with:										
	90% or more specialization....	43	3,874	19,170	3,025	6,342	12,942	29,509	57,782	87,091	4,186
	75-89% specialization.....	11	4,087	23,039	3,043	6,184	15,942	20,690	56,992	76,427	1,523
33526	Aluminum tube (primary product class of estab.).....	12	566	2,816	450	1,065	2,107	5,999	15,028	20,995	( <sup>1</sup> )
3356	ROLLING AND DRAWING, NEC (entire industry).....	143	16,571	94,713	11,467	22,542	57,446	174,633	306,634	486,308	14,984
	Establishments with:										
	90% or more specialization.....	66	7,356	42,764	5,293	10,237	27,543	92,995	176,048	270,868	9,283
	75-89% specialization.....	7	2,181	13,102	1,407	2,714	7,738	27,325	32,671	61,327	919
3357	NONFERROUS WIRE DRAWING, ETC. (entire industry).....	278	56,493	296,157	43,523	88,973	209,932	568,911	969,254	1,532,508	36,226
	Establishments with:										
	90% or more specialization.....	241	47,649	247,522	36,611	74,642	175,304	456,913	807,460	1,276,068	31,495
	75-89% specialization.....	18	4,790	27,204	3,735	7,857	19,694	54,672	107,392	164,351	2,344
33572	Copper and copper-base alloy wire including strand and cable, bare and tinned for electrical transmission (primary product class of estab.).....	19	2,771	14,703	2,337	4,892	11,709	45,315	80,521	126,632	1,234
33573	Other nonferrous metal wire (including woven wire products except insulated) (primary product class of estab.).....	18	2,366	13,152	1,914	3,885	9,240	23,408	21,054	44,500	3,077
	Establishments with:										
	90% or more specialization....	10	784	4,710	695	1,375	3,584	8,024	4,956	13,041	645
33574	Communication wire and cable (primary product class of estab.)..	56	13,915	73,211	10,633	21,285	50,606	171,073	236,088	404,811	9,388
33576	Appliance wire and cord and flexible cord sets (primary product class of estab.).....	20	2,655	10,828	2,189	4,442	8,195	20,995	31,883	51,727	869
	Establishments with:										
	90% or more specialization....	11	425	1,378	365	761	1,105	2,383	3,646	6,000	( <sup>1</sup> )
	75-89% specialization.....	3	124	433	111	222	388	816	2,199	2,670	( <sup>1</sup> )

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
33577	Magnet wire (primary product class of estab.).....	25	4,293	24,544	3,304	6,915	18,014	50,465	88,356	137,534	2,461
	Establishments with:										
	90% or more specialization....	21	3,227	18,912	2,526	5,285	14,113	40,686	69,669	108,946	1,975
33578	Power wire and cable (primary product class of estab.).....	16	8,611	47,954	5,966	12,211	30,880	81,411	114,085	198,110	7,831
33579	Other insulated wire and cable, nec (primary product class of estab.)..	70	20,759	106,546	16,313	33,567	77,401	180,177	345,599	521,293	10,930
	Establishments with:										
	90% or more specialization....	28	2,335	12,229	1,794	3,924	8,713	20,199	26,047	46,042	1,166
	75-89% specialization.....	10	8,101	41,445	6,627	13,030	31,529	74,586	111,220	184,710	2,066
3361	ALUMINUM CASTINGS (entire industry)....	955	30,045	158,915	24,626	48,683	119,166	225,686	198,560	422,041	12,220
	Establishments with:										
	90% or more specialization.....	620	11,681	58,384	9,609	18,834	44,110	82,713	92,873	175,157	7,411
	75-89% specialization.....	142	5,859	32,537	4,722	9,541	23,834	40,194	32,382	72,722	1,453
3362	BRASS, BRONZE, COPPER CASTINGS (entire industry).....	665	14,861	70,512	12,294	23,538	52,786	109,744	111,609	220,955	5,103
	Establishments with:										
	90% or more specialization.....	381	7,052	33,844	5,887	11,284	25,525	55,409	61,268	116,743	3,116
	75-89% specialization.....	111	2,876	13,565	2,340	4,436	9,911	19,972	19,656	39,569	704
3369	NONFERROUS CASTINGS, NEC (entire industry).....	345	17,253	89,239	14,330	27,617	66,339	135,311	98,678	234,649	5,013
	Establishments with:										
	90% or more specialization.....	198	5,618	28,638	4,671	9,422	21,813	44,865	34,637	80,231	2,372
	75-89% specialization.....	38	3,794	19,652	3,216	6,164	15,585	28,433	18,532	46,815	781

D Withheld to avoid disclosing figures for individual companies. \*Revised.

<sup>1</sup>Less than \$500 thousand.

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3351—COPPER ROLLING AND DRAWING								
Nonferrous foundry (except die casting).....	31	...	6	25	2,150	...	69	2,081
Forging.....	4	...	1	3	161	...	(D)	(D)
Galvanizing and other hot dip coating.....	3	1	2	...	20	(D)	(D)	...
Heat treating and annealing.....	55	10	23	22	1,388	24	257	1,107
Automatic screw machine department.....	2	1	...	1	(D)	(D)	...	(D)
Machine shop.....	40	7	14	19	1,337	16	168	1,153
Tool and die shop.....	33	7	13	13	883	17	151	715
Stamping, blanking, and forming.....	12	1	7	4	494	(D)	(D)	404
INDUSTRY 3352—ALUMINUM ROLLING AND DRAWING								
Nonferrous foundry (except die casting).....	10	2	2	6	480	(D)	(D)	452
Nonferrous die casting.....	1	1	...	...	(D)	(D)	...	...
Forging.....	8	...	4	4	315	...	49	266
Galvanizing and other hot dip coating.....	3	2	1	...	(D)	(D)	(D)	...
Heat treating and annealing.....	58	25	20	13	1,398	61	181	1,156
Automatic screw machine department.....	4	2	1	1	(D)	(D)	(D)	(D)
Machine shop.....	49	14	11	24	1,957	34	88	1,835
Tool and die shop.....	38	11	15	12	981	28	134	819
Plate or structural fabrication.....	4	1	1	2	284	(D)	(D)	(D)
Stamping, blanking, and forming.....	26	5	10	11	2,118	11	125	1,982

See footnote at end of table.



NONFERROUS METAL MILL AND FOUNDRY PRODUCTS

33D-31

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958--Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3356—ROLLING AND DRAWING, NFC								
Nonferrous foundry (except die casting).....	15	6	7	2	207	17	(D)	(D)
Nonferrous die casting.....	2	1	1	...	(D)	(D)	(D)	...
Forging.....	4	1	1	2	72	(D)	(D)	(D)
Heat treating and annealing.....	16	6	8	2	126	13	(D)	(D)
Machine shop.....	25	7	12	6	405	19	109	277
Tool and die shop.....	5	2	3	...	33	(D)	(D)	...
Plate or structural fabrication.....	3	...	...	3	185	...	...	185
Stamping, blanking, and forming.....	9	4	4	1	120	10	(D)	(D)
INDUSTRY 3357—NONFERROUS WIRE DRAWING, ETC.								
Electroplating.....	16	5	7	4	630	14	69	547
Galvanizing and other hot dip coating.....	19	6	11	2	214	14	(D)	(D)
Heat treating and annealing.....	51	33	17	1	679	73	(D)	(D)
Machine shop.....	83	21	28	24	1,426	77	271	1,078
Tool and die shop.....	29	14	10	5	407	28	79	300
Plate or structural fabrication.....	1	...	1	...	(D)	...	(D)	...
Stamping, blanking, and forming.....	11	6	2	3	824	(D)	(D)	797
Painting, lacquering, and enameling.....	32	14	10	8	500	24	101	375
INDUSTRY 3361—ALUMINUM CASTINGS								
Machine shop.....	112	42	44	26	2,142	97	414	1,631
Foundry pattern shop.....	82	50	26	6	540	105	197	238
INDUSTRY 3362—BRASS, BRONZE, COPPER CASTINGS								
Machine shop.....	103	48	37	18	1,369	114	355	900
Foundry pattern shop.....	79	67	11	1	332	127	(D)	(D)
INDUSTRY 3369—NONFERROUS CASTINGS, NEC								
Machine shop.....	57	16	26	15	1,006	43	261	702
Foundry pattern shop.....	13	8	2	3	136	(D)	(D)	95

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3351	3352	3356	3357	3361	3362	3369
Total number of establishments in the industry.....	105	185	143	278	955	665	345
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	77	136	94	188	687	427	237
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	85-90	80-85	80-85	75-80	70-75	75-80





# Forgings and Miscellaneous Primary Metal Industries

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3391—Iron and Steel Forgings
- 3392—Nonferrous Forgings
- 3399—Primary Metal Industries, Not Elsewhere Classified

### 3391—Iron and Steel Forgings

This industry comprises establishments primarily engaged in manufacturing light and heavy board drop, steam hammer, upset, and press iron and steel forgings with or without the use of dies. Rolling mills engaged in the production of iron and steel forgings are classified in Industry 3312, Blast Furnaces and Steel Mills.

For a detailed list of primary products of Industry 3391, refer to table 6A, product codes 3391111 to 3391951.

The value of shipments of Industry 3391 in 1958 totaled \$671 million. This included shipments of primary products (iron and steel forgings) valued at \$557 million, shipments of secondary products valued at \$87 million, and miscellaneous receipts (mainly scrap and salable refuse) of \$27 million.

Industry 3391 shipments of iron and steel forgings in 1958 represented 86 percent of its total product shipments (primary and secondary). In 1954, the primary product specialization ratio was 88 percent. Secondary products shipped by Industry 3391 in 1958 consisted of nonferrous forgings, \$29 million; special dies, tools, die sets, jigs and fixtures, \$9 million; and many other metal products, including valves and fittings for piping systems, mechanics' hand service tools, and job stampings, except automotive, totaling \$50 million.

Industry 3391 shipments of iron and steel forgings in 1958 represented 72 percent of the iron and steel forgings, valued at \$769 million, shipped by all industries. The comparable 1954 coverage ratio was 73 percent. Industry 3312, Blast Furnaces and Steel Mills, with shipments totaling \$148 million was the principal other industry shipping iron and steel forgings in 1958.

Industry 3391 includes establishments in two main categories: those producing iron and steel forgings for sale to the trade (commercial forge shops), and those producing forgings for use by other plants of the same company (captive forge shops). A few plants in this industry produce forgings both for sale and for interplant transfer. In addition, forgings are also produced in forgings departments of establishments classified (on the basis of their final product) in other industries. In the 1958 Census of Manufactures, establishments in the fabricated metal product and machinery industries (Major Groups 34-37) having such "captive" forging departments (either ferrous or nonferrous) reported data on the approximate number of employees engaged in this activity as well as similar data for thirteen other metal fabricating operations such as foundry, stamping, etc. These data are shown in table 9 of the reports covering the four-digit industries within these major groups and are summarized in Volume I, General

Summary. Also, for those industries where the "captive" production of iron and steel forgings is of particular importance, the quantity of iron and steel forgings produced and consumed within such industries is shown in the materials consumed table in the reports covering these industries.

Materials consumed data, shown in table 7 of this report represent only those tonnages consumed by establishments classified in Industry 3391, including consumption for secondary products. For this reason they cannot be related directly to the tonnages of forgings shown in table 6A which represent the total shipments of steel forgings, including those shipped by establishments classified in other industries.

Detailed figures on shipments of commercial steel forgings are collected on a monthly basis by the Bureau of the Census and published in Current Industrial Reports Series M33C, Commercial Steel Forgings. Footnote 2, table 6A shows totals for the data collected in the monthly survey for 1958 and 1954. The monthly data are estimated industry totals derived from a canvass of large commercial forge shops only.

### 3392—Nonferrous Forgings

This industry comprises establishments primarily engaged in manufacturing, with or without the use of dies, forgings of aluminum, titanium, copper and other nonferrous metals and alloys.

For a detailed list of primary products of Industry 3392, refer to table 6A, product codes 3392011 to 3392098.

The value of shipments of Industry 3392, Nonferrous Forgings, in 1958 totaled \$115 million. This included shipments of primary products (nonferrous forgings) valued at \$93 million, shipments of secondary products valued at \$15 million, and miscellaneous receipts (mainly the sale of scrap and salable refuse) of \$7 million.

Industry 3392 shipments of nonferrous forgings in 1958 represented 86 percent of its total product shipments (primary and secondary). Secondary products shipped by Industry 3392 in 1958 included special dies, tools, die sets, jigs and fixtures, \$6 million; and drop, upset and press steel forgings, \$8 million.

Industry 3392 shipments of nonferrous forgings in 1958 represented 64 percent of the nonferrous forgings, valued at \$146 million, shipped by all industries. Industry 3391, Iron and Steel Forgings, with shipments totaling \$29 million, was the principal other industry shipping nonferrous forgings.

Industry 3392 includes establishments in two main categories: those producing nonferrous forgings for sale to the trade (commercial forge shops), and those producing forgings for use by other plants of the same company (captive forge shops). In addition, a few plants in this industry produce forgings both for sale and for interplant transfer.

No data are available on nonferrous forgings which are produced and consumed within the same establishment in the manufacture of further fabricated products. In some instances, the fabricated product may require relatively little fabrication or processing beyond the rough forging



stage. Nevertheless, establishments primarily engaged in producing such items are classified as fabricated product plants in the appropriate industry in Major Groups 34-37, Fabricated Metal Products, Machinery, and Transportation Equipment.

Industry 3392, Nonferrous Forgings (as defined in the 1957 edition of the Standard Industrial Classification Manual), was not treated as a separate industry in the 1954 Census of Manufactures, nor in the 1955-1957 Annual Surveys of Manufactures. For years prior to 1958, nonferrous forge shops were included in Industry 3399, Primary Metal Industries, N.E.C. This industry also included establishments primarily engaged in either cold-rolling of steel sheet and strip, cold-finishing of steel bar, production of metal powders and paste, or annealing and heat treating of steel for the trade. For this reason, it is not possible to publish comparable 1954 data for a few of the statistical tables included in this report. General statistics data for plants specializing in the production of nonferrous forgings were published in table 8, Volume II, Part 2 of the 1954 Census of Manufactures. This is the source of the 1954 data published in table 1.

#### 3399--Primary Metal Industries, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous powder, flakes and paste, nonferrous nails, brads and spikes, and other primary metal products, not elsewhere classified. Establishments primarily engaged in annealing and heat treating steel for the trade are also included in this industry.

For a detailed list of primary products of Industry 3399, refer to table 6A, product codes 3399111 to 3399611.

The value of shipments of Industry 3399 in 1958 totaled \$141 million. This included shipments of primary products (primary metal products, n.e.c.) valued at \$131 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts (mainly contract work on material owned by others) of \$8 million.

Industry 3399 shipments of primary metal industries products, n.e.c., in 1958 represented 98 percent of its total product shipments (primary and secondary).

Industry 3399 shipments of primary products (primary metal industries products, n.e.c.) in 1958 represented 87 percent of these products, valued at \$150 million, shipped by all industries.

Industry 3399, by definition, includes establishments which fall into three significantly different categories: (1) those producing metal powders and paste; (2) those producing nonferrous nails, brads and spikes; and (3) those annealing and heat treating steel for the trade. Accordingly, the manufacturing plants included in this industry involve different processes depending upon the type of product produced or operation performed. Of the 581 establishments classified in this industry 38 establishments with 1,440 employees were primarily engaged in producing metal powders, flake and paste; 429 establishments with 7,437 employees were primarily engaged in such services as heat treating, annealing, etc. The remaining 114 establishments with employment totaling 918 were engaged in producing nonferrous nails, brads and spikes or reported shipments of primary metal products, not specified by kind.

Industry 3399, Primary Metal Industries, N.E.C. (as defined in the 1957 edition of the Standard Industrial Classification Manual) was not treated as a separate industry in the 1954 Census of Manufactures nor the 1955-1957 Annual Surveys of Manufactures. For years prior to 1958, establishments engaged in the production of metal powders and paste and those annealing and heat treating steel for the trade were included in Industry 3399, Primary Metal Industries, N.E.C. However, Industry 3399 also included establishments primarily engaged in either cold-rolling of steel sheet and strip, cold-finishing of steel bar or production of nonferrous forgings. Establishments producing nonferrous nails, brads and spikes were included, prior to 1958, in Industry 3481, Nails and Spikes. Industry 3481 also included establishments producing ferrous nails and spikes.

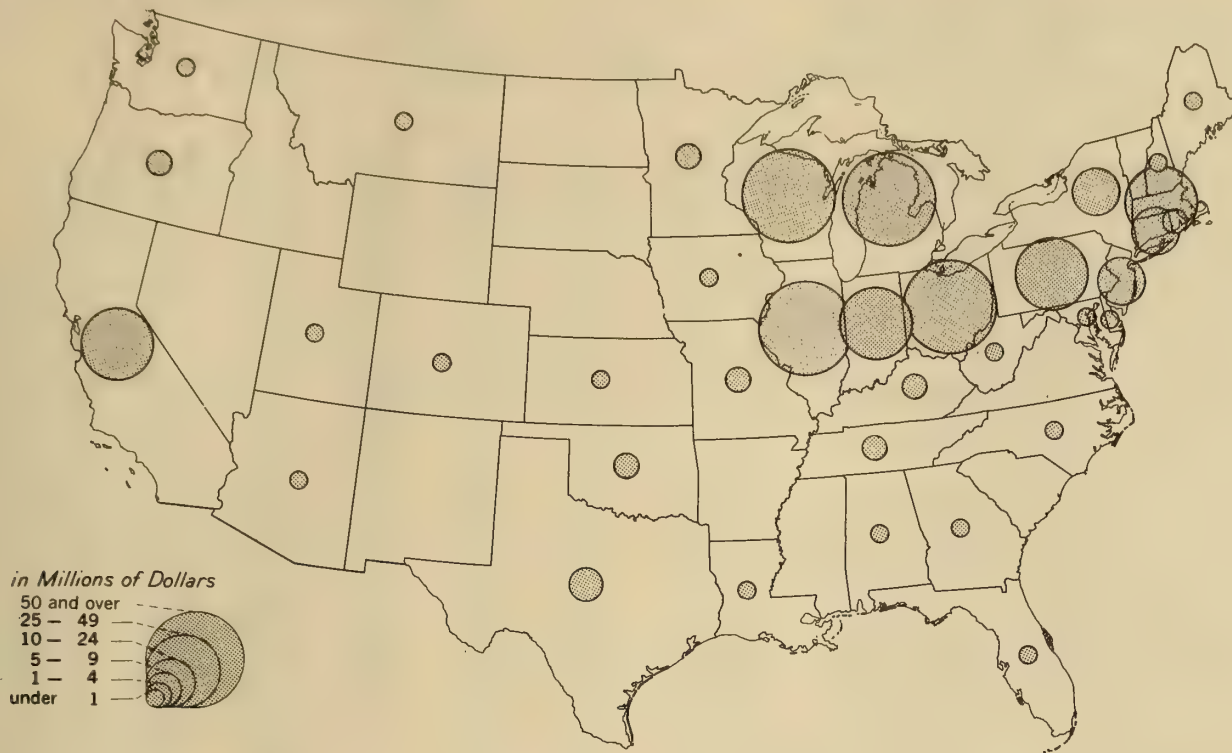
For these reasons, it is not possible to publish comparable 1954 data for a few of the statistical tables included in this report. General statistics data for plants specializing in the production of metal powder and paste and those annealing and heat treating steel for the trade were tabulated in the 1954 Census of Manufactures. The data for powder mills were published in table 8 of Volume II, Part 2, but the data for annealing and heat treating establishments were not published. The data for 1954 published in table 1 of this report are derived from the published and unpublished data described above. Establishments specializing in the production of nonferrous nails, brads and spikes, while not included in the 1954 figures, would not affect significantly the comparability of these data.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MISCELLANEOUS PRIMARY METAL INDUSTRIES: SIC 339

Value Added by Manufacture by State: 1958



Includes Industries 3391, 3392 and 3399. See Table 2.

Bureau of the Census. M-58-D339

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com-panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new	Specialization ratio <sup>4</sup> (percent)	Coverage ratio <sup>5</sup> (percent)
			Total	With 20 or more employ-ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3391 (old SIC 3391)	Iron and steel forgings:														
	1958.....	287	301	189	36,456	213,714	29,082	54,436	158,330	310,148	349,055	670,916	13,513	86	72
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	42,140	254,059	35,076	69,051	196,403	396,674	473,959	879,111	21,568	85	75
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	42,132	251,346	36,125	74,101	197,162	394,543	464,927	833,902	21,205	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	41,717	229,434	35,678	72,474	181,069	358,864	381,653	735,498	12,284	(NA)	(NA)
	1954.....	247	259	182	39,771	201,938	33,012	65,120	155,311	294,112	297,612	603,228	15,862	88	73
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	55,947	289,382	47,838	99,448	233,227	447,919	455,814	903,733	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	53,966	264,354	46,120	97,724	214,277	427,678	396,000	823,678	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	51,648	240,309	44,764	95,479	196,268	399,332	380,905	780,242	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	39,481	166,303	34,201	69,487	133,044	262,232	266,543	528,775	(NA)	(NA)	(NA)
	1949 <sup>6</sup> .....	(NA)	(NA)	(NA)	36,487	138,552	31,089	59,855	108,405	208,280	208,135	416,415	(NA)	(NA)	(NA)
	1947.....	240	250	179	36,724	128,198	32,384	66,469	105,776	197,111	172,986	370,097	9,230	95	77
	1939 <sup>7</sup> .....	(NA)	192	(NA)	(NA)	(NA)	(NA)	(NA)	21,462	49,426	48,576	98,002	(NA)	(NA)	(NA)
	1937.....	(NA)	194	(NA)	20,235	33,797	18,255	(NA)	27,659	59,611	63,224	122,835	(NA)	(NA)	(NA)
	1935.....	(NA)	185	(NA)	13,857	19,302	12,253	(NA)	15,107	31,243	35,108	66,351	(NA)	(NA)	(NA)
	1933.....	(NA)	181	(NA)	9,137	9,655	7,953	(NA)	7,354	15,627	16,896	32,523	(NA)	(NA)	(NA)
	1931.....	(NA)	202	(NA)	(NA)	(NA)	9,971	(NA)	11,444	25,043	22,657	47,700	(NA)	(NA)	(NA)
	1929.....	(NA)	218	(NA)	23,512	43,221	20,882	(NA)	34,505	84,642	71,607	156,249	(NA)	(NA)	(NA)
	1927.....	(NA)	219	(NA)	17,919	30,806	15,594	(NA)	23,540	52,934	52,102	105,036	(NA)	(NA)	(NA)
	1925.....	(NA)	227	(NA)	23,202	39,202	20,483	(NA)	31,588	67,342	68,577	135,919	(NA)	(NA)	(NA)
	1923.....	(NA)	244	(NA)	31,415	50,268	27,723	(NA)	40,539	87,234	93,591	180,825	(NA)	(NA)	(NA)
	1921.....	(NA)	252	(NA)	20,173	29,946	16,947	(NA)	20,950	39,792	45,291	85,083	(NA)	(NA)	(NA)
	1919.....	(NA)	261	(NA)	33,466	51,314	29,135	(NA)	40,603	93,558	83,561	177,119	(NA)	(NA)	(NA)
	1914.....	(NA)	213	(NA)	12,638	10,052	11,277	(NA)	7,850	15,447	15,300	30,747	(NA)	(NA)	(NA)
	1909.....	(NA)	191	(NA)	9,456	6,568	8,461	(NA)	5,169	10,712	10,596	21,308	(NA)	(NA)	(NA)
	1904.....	(NA)	146	(NA)	6,542	4,433	5,897	(NA)	3,555	6,901	6,008	12,909	(NA)	(NA)	(NA)
	1899.....	(NA)	97	(NA)	5,259	3,123	4,919	(NA)	2,677	5,512	5,424	10,936	(NA)	(NA)	(NA)
3392	Nonferrous forgings: <sup>8</sup>														
	1958.....	27	29	20	5,932	34,634	4,548	9,024	25,107	40,963	68,697	115,048	3,134	86	64
	1954.....	(NA)	31	(NA)	5,418	25,324	4,242	8,682	18,982	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3399	Primary metal industries, nec: <sup>8</sup>														
	1958.....	567	581	149	9,795	52,717	7,359	14,813	35,088	90,656	50,095	141,172	5,615	98	87
	1954.....	(NA)	468	(NA)	8,957	39,406	6,946	14,594	26,569	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, data for value added by manufacture represent adjusted value added by manufacture and for earlier years, unadjusted value added by manufacture. For a description of the derivation of unadjusted and adjusted value added by manufacture see Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 are shown below.

For 1958 and 1954, cost of materials includes cost of products bought for resale without further manufacture, processing, or assembly; for other years, excludes cost of products bought for resale. See Introduction "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, for 1958 and 1954 are shown below.

For 1958 and 1954, value of shipments includes shipments of products bought for resale without further manufacture, processing, or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales for 1958 and 1954 are shown below.

Industry code	Value added (\$1,000)	Cost of materials, etc. (\$1,000)		Value of shipments (\$1,000)	
		1958	1954	1958	1954
3391	504,258	339,627	291,175	660,142	595,434
3392	59,900	68,555	58,559	114,904	98,460
3399	68,235	47,809	46,224	138,391	114,455

<sup>4</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry, is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see Tables 5A and 5B.

<sup>5</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see Tables 5A and 5B.

<sup>6</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$52.9 million.

<sup>8</sup>Industries 3392 and 3399, as defined for the 1958 Census of Manufactures, were not treated as separate industries in prior years. See text for detailed discussion and source of 1954 data.



## FORGINGS AND MISCELLANEOUS PRIMARY METAL INDUSTRIES

33E-5

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industr. region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3391	Iron and steel													
	Forgings, total....	301	189	30,456	213,714	29,082	54,436	158,330	310,148	670,916	13,513	39,771	304,258	36,724
	New England.....	31	17	3,737	21,120	2,872	5,597	14,958	28,955	58,823	1,056	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Massachusetts....	15	10	2,668	15,649	2,055	4,050	11,132	21,298	43,152	798	2,721	20,224	2,413
	Connecticut.....	13	6	988	5,041	756	1,441	3,581	7,186	14,789	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	66	44	6,817	35,695	5,504	10,079	26,301	50,774	104,109	2,467	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New York.....	21	13	2,266	11,779	1,796	3,228	8,590	13,132	28,651	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New Jersey.....	12	6	519	2,747	437	859	2,095	4,646	9,254	( <sup>2</sup> )	931	6,632	1,194
	Pennsylvania....	33	25	4,032	21,169	3,271	5,992	15,616	32,996	66,204	1,800	5,261	42,665	5,297
	East North													
	Central.....	135	93	23,607	143,784	18,959	35,414	108,114	209,347	457,624	8,907	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Ohio.....	41	28	5,347	31,623	4,392	8,083	24,073	43,958	105,726	1,350	7,414	54,798	5,441
	Indiana.....	12	10	2,863	16,546	2,372	4,244	12,851	24,313	54,203	1,846	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	36	23	4,647	28,838	3,738	7,017	21,293	44,852	93,052	1,544	5,637	45,630	6,701
	Michigan.....	38	25	4,352	27,492	3,597	6,723	21,258	40,913	95,741	1,222	4,470	34,815	5,270
	Wisconsin.....	8	7	6,398	39,285	4,860	9,347	28,639	55,311	108,902	2,945	5,295	43,335	3,834
	West North													
	Central.....	6	...	28	168	24	47	142	247	577	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South.....	24	11	763	3,984	580	1,146	2,752	7,186	14,172	( <sup>2</sup> )	533	4,021	960
	Texas.....	13	7	421	2,233	321	666	1,596	4,516	9,395	...	244	2,172	175
	Pacific.....	39	24	1,504	8,963	1,143	2,153	6,063	13,639	35,611	667	1,000	9,742	(D)
	California.....	34	19	1,310	7,802	990	1,854	5,265	11,975	32,111	637	853	8,608	781
3392	Nonferrous													
	Forgings, total....	29	20	5,932	34,634	4,548	9,024	25,107	40,963	115,048	3,134	5,418	39,900	(NA)
	New England.....	4	4	1,287	7,622	962	1,980	5,333	11,517	23,338	(D)	(NA)	(NA)	(NA)
	Middle Atlantic...	5	4	1,841	10,070	1,497	3,041	7,986	8,776	25,352	(D)	(NA)	(NA)	(NA)
	All other Divisions.....	20	12	2,804	16,942	2,089	4,003	11,788	20,670	66,358	( <sup>2</sup> )	(NA)	(NA)	(NA)
3399	Primary metal industries, nec, total..	581	149	9,795	52,717	7,359	14,813	35,088	90,656	141,172	5,615	8,957	68,235	(NA)
	New England.....	46	5	537	3,031	401	817	1,945	5,031	7,244	(D)	(NA)	(NA)	(NA)
	Middle Atlantic...	123	33	2,286	11,937	1,687	3,432	7,902	22,443	40,621	(D)	(NA)	(NA)	(NA)
	New Jersey.....	39	12	998	5,250	714	1,462	3,358	10,999	21,748	880	(NA)	(NA)	(NA)
	All other Divisions.....	412	111	6,972	37,749	5,271	10,564	25,241	63,182	93,307	3,837	(NA)	(NA)	(NA)
	Indiana.....	20	3	256	1,350	190	389	847	2,564	5,101	( <sup>2</sup> )	(NA)	(NA)	(NA)
	Wisconsin.....	20	7	283	1,542	205	405	941	2,367	3,098	(D)	(NA)	(NA)	(NA)
	Minnesota.....	7	2	127	738	96	193	417	1,551	1,985	( <sup>2</sup> )	(NA)	(NA)	(NA)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3391, Iron and steel forgings: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Rhode Island, 1 (20-99); West North Central—Minnesota, 3 (1-19); Iowa, 2 (1-19); Missouri, 1 (1-19); South—Maryland, 1 (1-19); Florida, 2 (1-19); Kentucky, 1 (20-99); Tennessee, 3 (100-249); Louisiana, 2 (20-99); Oklahoma, 2 (100-249); Pacific—Washington, 2 (20-99); Oregon, 3 (100-249).

SIC 3392, Nonferrous forgings: New England—Massachusetts, 1 (500-999); Connecticut, 3 (250-499); Middle Atlantic—New York, 1 (1,000-2,499); Pennsylvania, 4 (500-999); North Central, South and West—Ohio, 5 (1,909); Illinois, 3 (100-249); Michigan, 1 (20-99); Missouri, 1 (1-19); Maryland, 1 (1-19); Florida, 1 (1-19); Texas, 2 (100-249); California, 6 (500-999).

SIC 3399, Primary Metal Industries, NEC: New England—Massachusetts, 11 (100-249); Rhode Island, 7 (20-99); Connecticut, 28 (100-249); Middle Atlantic—New York, 49 (500-999); Pennsylvania, 35 (500-999); All other Divisions—Ohio, 76 (1,086); Illinois, 38 (1,067); Michigan, 101 (1,000-2,499); Iowa, 4 (20-99); Missouri, 9 (100-249); Kansas, 2 (1-19); Delaware, 1 (20-99); Maryland, 5 (20-99); West Virginia, 2 (1-19); North Carolina, 1 (1-19); Georgia, 1 (1-19); Kentucky, 2 (100-249); Tennessee, 4 (100-249); Alabama, 1 (1-19); Louisiana, 2 (1-19); Oklahoma, 4 (20-99); Texas, 11 (100-249); Montana, 1 (1-19); Colorado, 1 (1-19); Arizona, 2 (1-19); Utah, 1 (1-19); Washington, 2 (1-19); Oregon, 4 (1-19); California, 90 (1,286).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

Item	Iron and steel forgings (SIC 3391)	Nonferrous forgings (SIC 3392)	Primary metals, nec (SIC 3399)
Primary product specialization ratio <sup>1</sup> .....	86	86	98
Coverage ratio <sup>2</sup> .....	72	64	87
Number of establishments, total.....	301	29	581
With 1-19 employees.....	112	9	432
With 20-99 employees.....	109	11	139
With 100 employees or more.....	80	9	10
Proprietors and working partners.....Number...	81	3	220
All employees:			
Number (average for the year).....	36,456	5,932	9,795
Payroll.....\$1,000...	213,714	34,634	52,717
Production workers:			
Number (average for the year).....	29,082	4,548	7,359
March.....	29,592	4,684	7,269
May.....	27,653	4,553	7,254
August.....	28,428	4,545	7,223
November.....	30,642	4,425	7,719
Man-hours.....1,000...	54,436	9,024	14,813
January-March.....do....	14,197	2,396	3,693
April-June.....do....	12,881	2,357	3,584
July-September.....do....	12,311	2,067	3,472
October-December.....do....	15,047	2,199	3,883
Wages.....\$1,000...	158,330	25,107	35,088
Cost of materials, etc., total.....do....	349,055	68,697	50,095
Materials, parts, containers, and supplies consumed.....do....	306,910	61,577	38,142
Cost of resales.....do....	9,428	142	2,286
Fuels consumed.....do....	19,390	2,118	4,268
Electricity purchased.....do....	6,605	1,837	3,386
Contract work.....do....	6,722	3,023	2,013
Value of shipments (including resales), total.....do....	670,916	115,048	141,172
Value of resales.....do....	10,774	144	2,781
Value added by manufacture, adjusted.....do....	310,148	40,963	90,656
Manufacturers' inventories:			
Beginning of year, total.....do....	157,398	29,162	14,803
Finished products.....do....	14,190	1,275	6,236
Work-in-process.....do....	52,033	17,385	3,674
Materials, supplies, fuel, etc.....do....	91,175	10,502	4,893
End of year, total.....do....	132,962	20,878	14,402
Finished products.....do....	11,433	702	6,388
Work-in-process.....do....	43,077	12,570	3,101
Materials, supplies, fuel, etc.....do....	78,452	7,606	4,913
Expenditures for plant and equipment, total.....do....	15,062	3,524	7,143
New, total.....do....	13,513	3,134	5,615
New structures and additions to plant.....do....	2,644	972	1,514
New machinery and equipment.....do....	10,869	2,162	4,101
Used plant and equipment.....do....	1,549	390	1,528

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



# FORGINGS AND MISCELLANEOUS PRIMARY METAL INDUSTRIES

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Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3391	Iron and steel forgings:											
	Number of establishments.....	301	46	31	35	69	40	46	21	9	3	1
	All employees:											
	Number.....	36,456	86	214	505	2,235	2,878	7,557	7,623	5,982	9,376	(D)
	Payroll.....\$1,000..	213,714	391	1,116	2,899	13,008	17,437	43,186	43,213	35,301	57,163	(D)
	Value added, adjusted..do....	310,148	817	1,823	4,633	20,910	29,635	66,617	60,572	48,032	77,109	(D)
	Value of shipments.....do....	670,916	1,554	3,503	10,382	43,051	64,128	138,395	134,750	111,578	163,575	(D)
	Capital expend., new...do....	13,513	(1)	(1)	(1)	1,079	1,398	2,149	2,934	1,866	3,440	(D)
3392	Nonferrous forgings:											
	Number of establishments.....	29	1	4	4	6	5	3	3	1	2	...
	All employees:											
	Number.....	5,932	31	(D)	53	168	340	350	4,990	(D)	(D)	...
	Payroll.....\$1,000..	34,634	170	(D)	281	957	1,545	2,063	29,618	(D)	(D)	...
	Value added, adjusted..do....	40,963	181	(D)	489	1,571	2,121	3,327	33,274	(D)	(D)	...
	Value of shipments.....do....	115,048	464	(D)	1,037	3,601	4,606	6,759	98,581	(D)	(D)	...
	Capital expend., new...do....	3,134	(1)	(D)	(1)	(D)	(1)	(1)	2,920	(D)	(D)	...
3399	Primary metal industry, nec:											
	Number of establishments.....	581	169	140	123	111	28	9	1	...	...	...
	All employees:											
	Number.....	9,795	388	954	1,682	3,343	1,906	1,522	(D)	...	...	...
	Payroll.....\$1,000..	52,717	1,913	5,057	8,762	17,453	10,711	8,821	(D)	...	...	...
	Value added, adjusted..do....	90,656	3,912	9,909	15,096	28,367	18,950	14,422	(D)	...	...	...
	Value of shipments.....do....	141,172	6,353	13,413	20,292	44,297	32,507	24,310	(D)	...	...	...
	Capital expend., new...do....	5,615	573	705	1,108	1,456	706	1,067	(D)	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in industry	Made in other industries	Coverage ratio <sup>2</sup>
Col. B Col. B+C (percent)	Col. G Col. F (percent)									
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)		
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)		
3391	Iron and steel forgings.....1958.. 1954..	670,916 603,228	557,074 511,342	87,144 67,807	26,698 24,079	86 88	768,917 704,624	557,074 511,342	211,843 193,282	<sup>3</sup> 72 73
3392	Nonferrous forgings.....1958..	115,048	92,715	14,929	7,404	86	145,772	92,715	53,057	64
3399	Primary metal industries, nec...1958..	141,172	131,396	1,782	7,994	98	150,498	131,396	19,102	87

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Included in this industry are open die or smith forgings which are also primary to Industry 3312, Blast Furnaces and Steel Mills. A coverage ratio computed on the basis of including both industries to which open die or smith forgings are primary would total 88 percent; 72 percent by Industry 3391 and 16 percent by Industry 3312. The remaining 12 percent was shipped by establishments in other industries.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Iron and steel forgings industry	Iron and steel forgings (SIC 3391)	Blast furnaces and steel mills (SIC 3312)	Other industries	All industries
	Total shipments and receipts of the industry.....	670,916	xxx	xxx	xxx
	Primary products.....	557,074	147,925	63,918	1768,917
33911	Drop, upset, and press steel forgings (closed die).....	451,914	28,438	<sup>2</sup> 54,969	535,319
33919	Open-die or smith forgings (open frame, hammer, or press).....	93,362	119,487	8,015	1220,864
33910	Iron and steel forgings, not specified by kind.....	11,798	...	936	12,734
	Secondary products.....	87,144	xxx	xxx	xxx
33920	Nonferrous forgings.....	29,029	xxx	xxx	xxx
35441	Special dies and tools, die sets, jigs, and fixtures.....	8,609	xxx	xxx	xxx
	Other (largely valves and fittings for piping systems, mechanics' hand service tools and job stampings, except automotive) secondary products.....	49,506	xxx	xxx	xxx
	Miscellaneous receipts.....	26,698	xxx	xxx	xxx
	Contract and commission work.....	6,424	xxx	xxx	xxx
	Scrap and salable refuse.....	9,500	xxx	xxx	xxx
	Value of resales.....	10,774	xxx	xxx	xxx
Prod. class code	Nonferrous forgings industry	Nonferrous forgings (SIC 3392)	Iron and steel forgings (SIC 3391)	Other industries	All industries
	Total receipts of industry.....	115,048	xxx	xxx	xxx
33920	Nonferrous forgings.....	92,715	29,029	<sup>3</sup> 24,028	145,772
	Secondary products.....	14,929	xxx	xxx	xxx
35441	Special dies and tools, die sets, jigs, and fixtures.....	5,845	xxx	xxx	xxx
33911	Drop, upset, and press steel forgings (closed die).....	8,180	xxx	xxx	xxx
	Other secondary products.....	904	xxx	xxx	xxx
	Miscellaneous receipts.....	7,404	xxx	xxx	xxx
	Scrap and salable refuse.....	7,207	xxx	xxx	xxx
	Value of resales.....	144	xxx	xxx	xxx
	Other miscellaneous receipts.....	53	xxx	xxx	xxx
Prod. class code	Primary metal industries, nec, industry	Primary metal industries, nec (SIC 3399)	Nonferrous rolling and drawing (SIC 3356)	Other industries	All industries
	Total receipts of industry.....	141,172	xxx	xxx	xxx
	Primary products.....	131,396	6,565	12,537	150,498
33991	Metal powders and paste.....	37,870	6,565	10,673	55,108
33996	Heat treating of steel for the trade.....	85,258	...	...	85,258
33992	Nonferrous nails, brads, tacks, and staples.....	8,268	...	1,864	10,132
33990	Primary metal products, not specified by kind.....				
	Secondary products.....	1,782	xxx	xxx	xxx
	Miscellaneous receipts.....	7,994	xxx	xxx	xxx
	Contract and commission work.....	4,996	xxx	xxx	xxx
	Value of resales.....	2,781	xxx	xxx	xxx
	Other miscellaneous receipts.....	217	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup>Includes total for product class 33129, open-die or smith forgings made in blast furnaces and steel mills, which is primary to Industry 3312.

<sup>2</sup>Includes \$18.0 million made in Industry 3717, Motor Vehicles and Parts, and \$8.2 million in Industry 3392, Nonferrous Forgings. Also includes an amount between \$5 and \$10 million produced in Industry 3533, Oil Field Machines and Equipment, and amounts between \$2 and \$5 million produced in Industries 3461, Metal Stampings; 3317, Steel Pipe and Tubes; and 3494, Valves and Pipe Fittings.

<sup>3</sup>Includes an amount between \$10 and \$15 million produced in Industry 3352, Aluminum Rolling and Drawing and amounts between \$2 and \$10 million by Industries 3494, Valves and Pipe Fittings, and 3461, Metal Stampings.



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Table 6A.-Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3391---	Iron and steel forgings, total.....	(NA)	1768,917	(NA)	1704,624
33911--	Drop, upset, and press steel forgings (closed die) <sup>2</sup> .....	(NA)	535,319	1,294,179	513,873
3391111	Carbon steel.....	705,486	273,609	799,479	256,024
3391131	Alloy steel (excluding stainless).....	364,424	206,756	479,473	224,405
3391151	Stainless steel.....	9,622	38,548	15,227	33,444
3391100	Drop, upset, and press steel forgings, not specified by grade.....	(NA)	16,406	...	...
33129-- 33919--	Open-die or smith forgings (open frame hammer or press) <sup>2</sup> .....	(NA)	220,864	324,183	188,323
33129--	Made in blast furnaces and steel mills (Industry 3312).....	129,289	119,487	(NA)	101,999
33919--	Made in steel forgings (Industry 3391) and other industries.....	(NA)	101,377	(NA)	86,324
3312911 3391911	Carbon steel.....	126,836	59,174	165,964	70,559
3312911	Made in blast furnaces and steel mills.....	51,239	26,712	(NA)	(NA)
3391911	Made in steel forgings and other industries.....	75,597	32,462	(NA)	(NA)
3312931 3391931	Alloy steel (excluding stainless).....	137,373	138,472	151,733	103,714
3312931	Made in blast furnaces and steel mills.....	75,657	88,921	(NA)	(NA)
3391931	Made in steel forgings and other industries.....	61,716	49,551	(NA)	(NA)
3312941 3391951	Stainless steel.....	7,749	18,310	6,486	14,010
3312941	Made in blast furnaces and steel mills.....	1,393	3,854	(NA)	(NA)
3391951	Made in steel forgings and other industries.....	6,356	14,456	(NA)	(NA)
3312900 3391900	Open die or smith forgings, not specified by grade.....	(NA)	4,908	...	...
3312900	Made in blast furnaces and steel mills.....	...	...	...	...
3391900	Made in steel forgings and other industries.....	(NA)	4,908	...	...
3391000	Iron and steel forgings, not specified by kind <sup>3</sup> .....	(NA)	12,734	(NA)	2,428
3392--	Nonferrous forgings, total.....	(NA)	145,772	(NA)	112,359
3392011	Copper and copper-base alloy forgings.....	10,002	14,325	15,582	18,390
	Aluminum and aluminum-base alloy forgings:				
3392033	Closed-die.....	22,055	68,188	37,867	73,823
3392035	Open-die.....	3,305	5,993		
3392051	Magnesium and magnesium-base alloy forgings.....	xxx	(*)	(NA)	1,504
3392061	Titanium forgings.....	884	33,379	(NA)	17,913
3392098	Other nonferrous metal forgings.....	(NA)	419,811	(NA)	729
3392000	Nonferrous forgings, not specified by type.....	(NA)	4,076	(NA)	729
3399---	Primary metal industries, nec, total.....	xxx	150,498	xxx	(NA)
33991--	Metal powders and paste.....	(NA)	55,108	xxx	50,349
3399111	Aluminum and aluminum-base alloy (aluminum content only) <sup>5</sup> .....	13,867	15,409	23,755	18,159
3399133	Copper and copper-base alloy (copper content only) <sup>6</sup> .....	16,017	16,704	14,392	11,942
3399198	Other metal powders.....	(NA)	21,512	(NA)	19,674
3399100	Metal powders and paste, not specified by type.....	(NA)	1,483	(NA)	574
3399211	Nonferrous nails, brads, tacks, and staples.....	1,953	2,051	(NA)	5,429
3399611	Heat treating of steel for the trade (heat treating, pickling, annealing, etc.) <sup>7</sup> ..		85,258	xxx	(8)
3399000	Primary metal products, not specified by kind.....	xxx	8,081	xxx	2,049

NA Not available.

xxx Not applicable.

<sup>1</sup>Includes product class 33129, open-die or smith forgings made in blast furnaces and steel mills.<sup>2</sup>These figures are not strictly comparable with tonnage figures shown in Current Industrial Reports (previously identified as Facts for Industry) Series M33C, "Commercial Steel forgings," in that the latter includes only forgings "for sale," whereas the 1958 and 1954 Census of Manufactures also include interplant transfers of forgings. Accordingly, a direct comparison with the monthly Current Industrial Reports series is not possible.

Forgings produced and consumed within the same plant are not included in either the Census or the Current Industry Reports figures. The annual totals reported in the monthly Current Industrial Reports survey for commercial steel forgings were as follows:

Item	1958 (short tons)	1954 (short tons)
Drop and upset steel forgings:		
Carbon.....	528,716	644,185
Alloy, including stainless.....	295,141	405,618
Press and open hammer steel forgings:		
Carbon.....	92,096	165,693
Alloy, including stainless.....	163,480	185,995

<sup>3</sup>Includes wrought iron forgings.<sup>4</sup>Magnesium and magnesium-base alloy forgings (3392051) are included with "Other nonferrous forgings" (3392098).<sup>5</sup>Figures are also shown in Current Industrial Reports (previously identified as Facts for Industry) Series M33-2 "Aluminum Ingot and Mill Products and Magnesium Mill Products." The difference between the 1958 figures obtained in the monthly series, 12,814 short tons, and the Census of Manufactures result from revisions obtained in the Census of Manufactures and a few fiscal year reports received in the Census of Manufactures.<sup>6</sup>Figures are also shown in Current Industrial Reports (previously identified as Facts for Industry) Series BDSA-84, "Shipments of Copper-Base Mill and Foundry Products."<sup>7</sup>Consists almost exclusively of receipts for work done on materials owned by others. Includes only work done by establishments classified in Industry 3399.<sup>8</sup>Receipts for contract and commission work for Industry 3399 in 1954 totaled \$68,745 thousand. Most of this value represented receipts for metal treating operations.

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Note: The figures shown for 1950-1953, and 1955-1957 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>2</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures; 33911, Connecticut, Missouri, Tennessee, Washington, and California; 33129 and 33919, Rhode Island, Indiana, Wisconsin, Oklahoma, Texas, Washington, and Oregon; 33991, Indiana, Illinois, Kentucky, Tennessee, and California.

<sup>2</sup>Shipments of less than \$1 million reported

<sup>3</sup>Shipments of over \$1 million were reported but the exact figures are withheld to avoid disclosure of individual company figures.

Code	Material	1958		1954	
		Quantity	Delivered cost	Quantity	Delivered cost
		(Short tons)	(\$1,000)	(Short tons)	(\$1,000)
	INDUSTRY 3391—IRON AND STEEL FORGINGS				
	Materials, containers, and supplies, total.....	xxx	306,910	xxx	259,886
	Mill snapes and forms (except castings):				
	Carbon steel:				
331241	Ingots.....	21,693	2,101	23,103	2,104
331242	Blooms, billets and slabs.....	298,468	38,655	274,867	27,242
331243	Bars.....	493,026	69,651	627,438	71,605
	Alloy steel (except stainless):				
331244	Ingots.....	32,059	5,827	36,193	4,541
331245	Blooms, billets and slabs.....	164,148	40,588	160,992	29,190
331246	Bars.....	283,091	64,056	345,504	56,790
	Stainless steel:				
331247	Ingots.....	1,302	1,856	961	448
331248	Blooms, billets and slabs.....	10,431	11,585	11,605	7,764
331249	Bars.....	8,269	9,097	9,122	10,060
970099	All other materials and components, parts, containers and supplies consumed.....	xxx	51,179	xxx	50,142
973000	Materials, not specified by kind.....		12,315		



## FORGINGS AND MISCELLANEOUS PRIMARY METAL INDUSTRIES

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Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3391	IRON AND STEEL FORGINGS (entire industry).....	301	36,456	213,714	29,082	54,436	158,330	310,148	349,055	670,916	13,513
	Establishments with:										
	90% or more specialization.....	258	22,061	127,711	18,133	33,457	96,450	193,303	238,742	434,006	7,477
	75-89% specialization.....	17	4,007	24,446	3,238	6,153	18,569	36,130	32,545	70,291	1,147
33911	Drop, upset, and press steel forgings (closed die) (primary product class of establishment)....	166	30,174	177,458	24,093	44,856	132,815	252,121	292,355	553,940	10,376
	Establishments with:										
	90% or more specialization....	130	15,771	91,796	13,033	24,064	70,665	135,977	177,781	314,761	4,618
	75-89% specialization.....	20	4,100	24,326	3,453	6,285	19,005	35,642	37,452	74,021	1,255
33919	Open die or Smith forgings (open frame hammer or press) not made in blast furnaces and steel mills (primary product class of establishment).....	78	5,556	32,459	4,422	8,510	22,735	51,379	48,890	102,501	2,662
	Establishments with:										
	90% or more specialization....	62	3,293	19,281	2,571	5,030	12,897	31,260	29,150	60,708	1,449
	75-89% specialization.....	8	855	5,569	713	1,512	4,332	7,596	9,053	16,891	603
3392	NONFERROUS FORGINGS (entire industry)..	29	5,932	34,634	4,548	9,024	25,107	40,963	68,697	115,048	3,134
	Establishments with:										
	90% or more specialization.....	20	4,459	25,902	3,404	6,851	18,744	29,004	56,077	88,204	1,784
3399	PRIMARY METAL INDUSTRIES, NEC (entire industry).....	581	9,795	52,717	7,359	14,813	35,088	90,656	50,095	141,172	5,615
	Establishments with:										
	90% or more specialization.....	517	8,864	47,918	6,722	13,542	32,175	82,093	43,059	125,533	5,217
	75-89% specialization.....	5	285	1,392	175	372	860	2,733	3,114	5,845	( <sup>1</sup> )
33991	Metal powders and paste (primary product class of establishment)....	38	1,440	7,898	1,035	2,044	5,002	17,050	22,240	38,818	1,233
	Establishments with:										
	90% or more specialization....	32	1,278	6,940	935	1,837	4,512	15,532	19,195	34,270	1,111
33996	Heat treating of steel for the trade (primary product class of establishment).....	429	7,437	40,590	5,605	11,481	27,097	65,407	22,615	88,824	3,907
	Establishments with:										
	90% or more specialization....	413	6,944	37,875	5,274	10,783	25,404	60,984	20,316	82,092	3,526
	75-89% specialization.....	7	268	1,386	175	377	912	2,140	1,120	3,272	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking Operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3391—IRON AND STEEL FORGINGS							
Machine shop.....	114	27	53	34	3,508	71	585	2,852
Tool and die shop.....	94	18	32	44	3,029	51	353	2,625

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry 3391
Total number of establishments in the industry.....	301
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	234
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95





## Major Group 34.—Fabricated Metal Products

This major group includes establishments primarily engaged in manufacturing a wide variety of fabricated metal products included in Standard Industrial Classification (SIC) Major Group (M.G.) 34, Fabricated Metal Products, Except Ordnance, Machinery, and Transportation Equipment. Other important segments of the metal fabricating industries are classified in other major groups such as Machinery in M.G. 35, and 36; Transportation Equipment in M.G. 37; Professional, Scientific, and Controlling Instruments; Photographic and Optical Goods; Watches and Clocks in M.G. 38; Jewelry and Silverware in M.G. 39 and Metal Furniture and Fixtures in M.G. 25.

The industries included in this major group encompass a varied group of fabricated metal finished products (cutlery, hardware, oil burners, plumbing fixtures, metal doors, safes, etc.), containers (metal cans, metal shipping barrels and drums, and collapsible tubes) materials or components for incorporation into other products (sheet metal work, bolts and nuts, metal stampings, steel springs, etc.) and service operations performed on a job or order basis for the trade (for example, metal coating and engraving in Group 347.)

The products of Major Group 34 are used in establishments in other manufacturing industries, in construction,

mines, farms, transportation, commerce and in households. The basic metals consumed are generally produced by establishments in M.G. 33, Primary Metal Industries.

Data on the number of establishments engaged in a selected fourteen of the more important metalworking operations and the number of employees working in the operations are shown in Table 9 for the 4 digit industries in Major Group 34. The operations shown in that table do not represent of course, a complete list or, for many metal fabricating industries in this group, even the fourteen most important ones. There are a number of significant activities such as assembly, sub-assembly, welding, etc. which are not covered. Although the production processes in this area adhere to a general pattern of specified metalworking and metal fabricating operations (e.g. machine shop tool and die room, etc.), there is a substantial variation in the number and types of processes performed by an individual establishment as well as from industry to industry. Within many of these industries establishments typically purchase mill shapes and carry out the entire fabricating of the metal until it emerges as a finished product. In other industries, however, such as in the heating apparatus and plumbing fixtures sub-group, the establishments may be primarily engaged in assembling component parts produced by other companies or in other plants of the same company.

Table 1—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees <sup>1</sup>		Production workers			Value added by manu- facture, adjusted <sup>2</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	1,089,028	5,841,910	812,587	1,603,453	3,724,130	9,412,183	458,397
Administrative and auxiliary establishments	(NA)	(NA)	31,042	216,701	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	24,782	8,312	1,057,986	5,412,405	812,587	1,603,453	3,724,130	9,412,183	458,397
Operating manufacturing establishments (based on old SIC).....	25,194	8,331	1,031,939	5,221,214	797,757	1,574,928	3,611,807	9,111,395	444,622
Operating manufacturing establishments:									
1957 <sup>3</sup> .....	(NA)	(NA)	1,113,534	5,383,103	880,066	1,750,841	3,802,896	9,543,780	527,507
1956 <sup>3</sup> .....	(NA)	(NA)	1,101,839	5,126,533	880,999	1,773,959	3,669,191	9,243,841	497,854
1955 <sup>3</sup> .....	(NA)	(NA)	1,093,509	4,863,276	885,194	1,787,018	3,532,819	8,774,849	457,783
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	1,040,123	4,535,400	821,172	1,652,366	3,174,186	7,653,391	432,491
Administrative and auxiliary establishments	(NA)	(NA)	20,717	138,063	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	22,516	7,348	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,653,391	432,491
Operating manufacturing establishments:									
1953 <sup>3</sup> .....	(NA)	(NA)	1,117,600	4,765,443	915,614	1,884,551	3,555,086	8,143,660	446,208
1952 <sup>3</sup> .....	17,953	(NA)	1,007,589	4,124,226	820,088	1,691,783	3,036,801	7,168,308	327,450
1951 <sup>3</sup> .....	17,552	(NA)	1,035,246	3,988,317	852,592	1,765,403	2,970,170	7,138,582	354,110
1950 <sup>3</sup> .....	16,975	(NA)	988,783	3,404,061	806,801	1,658,280	2,523,638	6,210,759	317,027
1949 <sup>3</sup> .....	(NA)	(NA)	872,229	2,883,510	710,280	1,428,451	2,088,285	4,834,171	230,879
1947.....	16,777	(NA)	973,174	2,833,684	823,012	1,694,666	2,189,032	4,920,304	304,822
1939 <sup>4</sup> .....	9,532	(NA)	(NA)	(NA)	451,087	(NA)	546,654	1,400,883	(NA)
1937 <sup>5</sup> .....	8,588	(NA)	(NA)	(NA)	493,091	(NA)	604,863	1,388,835	(NA)

NA Not available.

<sup>1</sup>The figures for 1939 through 1958 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>4</sup>The figures for 1939-1958 are not entirely comparable with those for 1937 because the 1937 figures exclude data for establishments primarily engaged in producing lawn sprinklers, spun ware, nonferrous metal novelties, tackle blocks, aluminum ornamental work, aluminum stampings, and machine knives (except metalworking) and include data for establishments primarily engaged in making caulking guns, toilet seats, brooders, cast aluminum cooking ware, and hair clippers. Value added for 1939 on a basis strictly comparable with 1937 was \$1,340.4 million.

<sup>5</sup>The figures for 1935 and earlier years are not sufficiently comparable with those for 1937-1954 to be shown in this table principally because of the inclusion in earlier years of data for establishments primarily engaged in the manufacture of valves and fittings, except plumbers' and the exclusion of data for establishments primarily engaged in the manufacture of stamped, pressed, and spun aluminum ware.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	FABRICATED METAL PRODUCTS, TOTAL . .	24 782	8 312	1 057 986	5 412 405	812 587	1 603 453	3 724 130	9 412 183	458 397	1 060 431	7 953 639
	NEW ENGLAND . . . . .	2 308	729	96 038	454 934	73 783	146 091	309 884	766 543	36 418	98 156	659 274
	MAINE . . . . .	52	17	1 578	7 806	1 130	2 331	5 440	14 129	570	(*)	(*)
	NEW HAMPSHIRE . . . . .	61	21	1 593	6 554	1 301	2 625	4 788	10 695	277	1 560	9 930
	VERMONT . . . . .	28	7	531	2 433	417	814	1 606	4 570	136	(*)	(*)
	MASSACHUSETTS . . . . .	1 026	352	40 941	195 247	31 110	61 819	131 135	356 402	13 154	39 049	284 871
	RHODE ISLAND . . . . .	333	69	7 899	34 352	6 390	12 563	24 208	56 013	2 094	8 833	51 335
	CONNECTICUT . . . . .	808	263	43 496	208 542	33 435	65 939	142 707	324 734	20 187	46 400	293 000
	MIDDLE ATLANTIC . . . . .	6 235	2 044	256 720	1 306 201	199 806	391 217	918 334	2 258 737	115 252	260 560	1 940 400
	NEW YORK . . . . .	3 100	915	88 272	431 907	69 770	138 813	307 092	738 471	48 880	93 833	666 058
	NEW JERSEY . . . . .	1 426	417	53 279	277 795	41 562	81 853	195 249	508 042	20 326	51 210	421 800
	PENNSYLVANIA . . . . .	1 709	712	115 169	596 499	88 474	170 551	415 993	1 012 224	46 046	115 501	852 350
	EAST NORTH CENTRAL . . . . .	7 486	2 790	392 580	2 092 779	299 446	592 520	1 430 106	3 582 664	159 781	425 223	3 283 503
	OHIO . . . . .	1 924	760	113 267	597 890	85 509	167 166	409 458	1 035 289	46 824	126 307	982 077
	INDIANA . . . . .	697	280	39 765	205 203	29 899	59 469	136 805	357 776	15 044	38 000	282 000
	ILLINOIS . . . . .	2 348	881	127 744	685 266	99 023	196 024	474 593	1 201 275	59 745	130 050	1 005 400
	MICHIGAN . . . . .	1 948	656	79 052	433 033	59 857	119 270	293 054	677 117	24 311	97 300	750 799
	WISCONSIN . . . . .	569	213	32 752	171 387	25 158	50 591	116 196	311 207	13 857	33 236	261 410
	WEST NORTH CENTRAL . . . . .	1 408	465	55 185	278 639	42 033	84 268	187 086	531 141	20 911	51 439	387 579
	MINNESOTA . . . . .	369	119	12 140	62 082	9 575	19 274	43 036	117 232	4 916	9 849	73 472
	IOWA . . . . .	218	72	8 527	42 413	6 434	12 988	27 780	94 219	3 906	7 550	66 500
	MISSOURI . . . . .	541	179	24 925	127 150	18 859	37 494	85 345	225 547	7 790	24 603	181 839
	NORTH DAKOTA . . . . .	13	2	270	1 260	193	385	795	2 185	201	225	1 399
	SOUTH DAKOTA . . . . .	19	6	473	2 137	348	746	1 311	4 250	87	389	3 235
	NEBRASKA . . . . .	93	29	3 583	17 616	2 767	5 852	11 625	39 552	2 136	2 700	17 550
	KANSAS . . . . .	155	58	5 267	25 981	3 857	7 529	17 194	48 156	1 875	6 160	45 800
	SOUTH ATLANTIC . . . . .	1 606	524	62 384	282 889	48 071	94 535	192 210	493 298	26 684	54 079	383 910
	DELAWARE . . . . .	45	15	2 341	12 473	1 763	3 575	8 500	21 659	772	1 800	11 300
	MARYLAND . . . . .	261	98	14 477	72 856	11 297	22 329	52 169	135 399	5 371	17 100	141 600
	DISTRICT OF COLUMBIA . . . . .	25	9	549	2 853	392	762	1 769	4 642	130	(*)	(*)
	VIRGINIA . . . . .	154	59	8 325	39 552	5 738	11 570	22 658	57 644	2 997	7 020	44 910
	WEST VIRGINIA . . . . .	81	42	7 701	34 915	6 255	11 918	26 040	60 010	4 383	8 854	56 626
	NORTH CAROLINA . . . . .	205	64	6 320	25 722	5 029	9 669	17 082	43 895	2 108	4 787	33 561
	SOUTH CAROLINA . . . . .	84	22	1 992	7 644	1 512	2 854	4 916	16 227	968	(*)	(*)
	GEORGIA . . . . .	211	71	6 973	28 474	5 499	10 981	19 655	48 928	2 378	5 750	31 886
	FLORIDA . . . . .	540	144	13 706	58 400	10 586	20 877	39 421	104 894	7 577	7 333	55 494
	EAST SOUTH CENTRAL . . . . .	678	265	42 930	194 987	34 027	65 585	139 761	344 700	18 443	43 650	308 396
	KENTUCKY . . . . .	165	70	12 263	60 068	9 481	18 046	43 155	106 419	8 103	14 553	112 479
	TENNESSEE . . . . .	232	85	15 611	67 018	12 185	23 381	47 247	110 601	3 520	16 945	105 356
	ALABAMA . . . . .	205	84	12 358	58 305	10 062	19 644	42 059	107 671	5 642	10 894	82 119
	MISSISSIPPI . . . . .	76	26	2 698	9 596	2 299	4 514	7 300	20 009	1 178	1 300	8 800
	WEST SOUTH CENTRAL . . . . .	1 261	407	45 328	215 873	34 027	69 130	143 126	383 308	23 481	35 399	256 551
	ARKANSAS . . . . .	88	31	2 747	11 152	2 175	4 463	8 173	19 464	1 505	1 885	9 981
	LOUISIANA . . . . .	174	42	5 892	30 090	4 631	9 485	21 162	52 491	2 083	4 915	35 620
	OKLAHOMA . . . . .	195	57	7 862	39 957	5 477	11 272	23 614	72 344	5 428	7 366	55 866
	TEXAS . . . . .	804	277	28 827	134 674	21 744	43 910	90 177	239 009	14 465	21 226	155 020
	MOUNTAIN . . . . .	416	120	10 135	51 633	7 514	15 248	35 561	83 658	5 557	6 887	45 081
	MONTANA . . . . .	29	6	317	1 557	234	440	1 048	2 461	149	200	1 137
	IDAHO . . . . .	19	7	547	2 864	397	835	1 876	3 496	182	409	1 637
	WYOMING . . . . .	9	3	156	503	135	179	436	1 005	103	(*)	(*)
	COLORADO . . . . .	164	47	3 991	21 394	2 849	5 819	13 668	37 442	1 689	2 715	18 230
	NEW MEXICO . . . . .	31	6	492	2 146	380	754	1 437	4 075	468	1 150	5 528
	ARIZONA . . . . .	76	16	1 720	8 652	1 294	2 750	6 716	12 700	777	2 060	16 650
	UTAH . . . . .	76	33	2 792	13 845	2 137	4 294	9 924	21 390	2 034	(*)	(*)
	NEVADA . . . . .	12	2	120	672	88	177	456	1 089	155	(*)	(*)
	PACIFIC . . . . .	3 384	968	96 686	534 470	73 880	144 859	368 062	968 134	51 870	85 033	688 950
	WASHINGTON . . . . .	294	73	6 661	36 845	5 165	9 766	26 326	65 122	2 993	5 593	45 917
	OREGON . . . . .	206	65	5 002	25 692	3 839	7 242	17 956	46 659	2 003	5 433	37 363
	CALIFORNIA . . . . .	2 884	830	85 023	471 933	64 876	127 851	323 780	856 353	46 874	74 006	605 669
341	METAL CANS, TOTAL <sup>1</sup> . . . . .	222	189	54 238	303 885	46 921	94 295	249 514	668 606	52 881	55 234	482 297
342	CUTLERY, HAND TOOLS, HARDWARE, TOTAL	2 094	814	135 718	656 911	104 888	205 755	454 540	1 202 227	37 827	143 676	1 044 425
	NEW ENGLAND . . . . .	302	137	29 792	136 080	22 566	43 586	93 195	258 759	8 075	34 098	243 291
	NEW HAMPSHIRE . . . . .	13	8	535	2 065	446	924	1 584	2 935	73	618	3 354
	MASSACHUSETTS . . . . .	127	54	10 268	48 069	7 488	14 318	31 062	120 520	2 720	10 378	97 709
	RHODE ISLAND . . . . .	27	6	1 676	7 597	1 465	2 866	6 021	11 446	170	2 588	15 874
	CONNECTICUT . . . . .	107	58	16 466	75 088	12 566	24 289	51 926	118 400	4 943	19 783	121 952
	MIDDLE ATLANTIC . . . . .	545	223	27 982	127 718	22 367	43 899	91 710	224 980	7 184	31 346	224 412
	NEW YORK . . . . .	275	111	11 891	53 605	9 381	18 594	37 314	94 427	3 857	12 779	87 715
	NEW JERSEY . . . . .	119	36	8 400	40 744	6 891	13 424	30 742	74 862	1 596	9 704	79 617
	PENNSYLVANIA . . . . .	151	76	7 691	33 369	6 095	11 881	23 654	55 691	1 731	8 862	57 079
	EAST NORTH CENTRAL . . . . .	622	259	53 854	282 347	41 549	81 960	197 083	500 541	14 512	58 938	442 274
	OHIO . . . . .	161	69	13 087	69 070	10 135	19 541	49 096	122 957	3 640	14 216	105 825
	INDIANA . . . . .	60	26	4 300	20 733	3 328	6 461	13 969	37 585	1 488	3 926	26 436
	ILLINOIS . . . . .	206	88	15 117	76 244	11 502	22 675	51 135	146 839	4 300	14 378	113 387
	MICHIGAN . . . . .	153	62	18 717	102 734	14 472	28 902	73 336	164 686	4 496	23 418	172 816
	WISCONSIN . . . . .	42	14	2 633	13 566	2 112	4 381	9 547	28 474	588	2 999	23 809

See footnotes at end of table.



## FABRICATED METAL PRODUCTS

34-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
342	CUTLERY, HAND TOOLS, HARDWARE—CON.											
	WEST NORTH CENTRAL.....	142	54	5 225	23 655	4 200	8 422	16 505	44 188	1 145	4 884	32 752
	MINNESOTA.....	49	15	1 581	6 848	1 246	2 424	4 616	12 158	611	1 152	7 044
	IOWA.....	26	11	734	3 201	554	1 156	2 155	9 659	280	786	7 063
	MISSOURI.....	49	20	2 456	11 849	2 003	3 970	8 380	18 860	206	2 589	16 332
	SOUTH ATLANTIC.....	84	25	4 593	19 080	3 510	6 681	12 537	37 017	1 864	3 571	20 084
	WEST VIRGINIA.....	7	6	1 433	6 441	1 157	2 104	5 018	12 515	718	1 708	10 857
	NORTH CAROLINA.....	19	8	652	2 328	520	1 048	1 595	4 044	341	455	2 229
	FLORIDA.....	28	4	411	1 613	347	694	1 203	2 364	123	102	889
	EAST SOUTH CENTRAL.....	32	15	2 933	10 301	2 372	4 481	7 140	24 358	1 126	2 102	11 663
	KENTUCKY.....	8	4	464	2 498	311	608	1 314	5 129	134	277	2 364
	ALABAMA.....	7	3	579	1 472	530	861	1 356	4 542	312	(*)	(*)
	WEST SOUTH CENTRAL.....	39	12	1 020	4 005	714	1 424	2 692	7 334	224	518	3 225
	ARKANSAS.....	11	6	636	2 607	409	847	1 750	4 348	100	159	462
	TEXAS.....	23	4	219	822	176	364	593	1 629	67	295	2 198
	MOUNTAIN.....	18	5	336	1 411	260	511	888	2 802	126	315	1 986
	COLORADO.....	13	4	293	1 279	227	450	783	2 537	(D)	266	1 728
	PACIFIC.....	310	84	9 983	52 314	7 350	14 791	32 790	102 248	3 571	7 900	64 735
	WASHINGTON.....	18	3	505	2 421	362	688	1 605	4 988	121	539	3 951
	OREGON.....	21	6	368	1 750	267	522	1 160	3 682	75	251	2 050
	CALIFORNIA.....	271	75	9 110	48 143	6 721	13 581	30 025	93 578	3 375	7 110	58 733
343	PLUMBING & NONELECTRIC HEATING, TOTAL	989	428	71 775	357 466	54 631	105 350	243 508	671 914	25 907	(*)	(*)
	NEW ENGLAND.....	88	28	2 245	10 199	1 789	3 563	7 330	19 213	620	(*)	(*)
	NEW HAMPSHIRE.....	3	2	137	555	113	218	404	724	19	(*)	(*)
	RHODE ISLAND.....	10	2	116	553	94	187	401	819	45	(*)	(*)
	CONNECTICUT.....	36	14	978	4 297	787	1 541	3 201	8 889	220	(*)	(*)
	MIDDLE ATLANTIC.....	271	106	16 027	80 036	12 230	23 932	55 852	156 420	6 190	(*)	(*)
	NEW YORK.....	107	39	5 111	25 575	3 896	7 773	17 803	48 089	1 539	(*)	(*)
	NEW JERSEY.....	59	21	3 260	16 438	2 423	4 627	11 143	29 645	1 511	(*)	(*)
	PENNSYLVANIA.....	105	46	7 656	38 023	5 911	11 532	26 906	78 686	3 140	(*)	(*)
	EAST NORTH CENTRAL.....	304	149	30 131	158 238	22 141	43 202	103 136	293 657	8 330	(*)	(*)
	OHIO.....	88	48	10 687	56 081	7 977	15 098	36 838	108 457	2 761	(*)	(*)
	INDIANA.....	40	20	3 217	14 854	2 188	4 231	8 807	29 086	1 025	(*)	(*)
	ILLINOIS.....	93	43	7 914	40 950	6 031	11 852	27 585	81 006	2 724	(*)	(*)
	MICHIGAN.....	54	25	3 527	18 905	2 307	4 474	11 382	28 938	584	(*)	(*)
	WISCONSIN.....	29	13	4 786	27 448	3 638	7 547	18 524	46 170	1 236	(*)	(*)
	WEST NORTH CENTRAL.....	62	27	4 121	20 392	2 995	5 906	13 475	47 470	1 124	(*)	(*)
	MINNESOTA.....	9	6	457	2 521	323	659	1 551	4 844	72	(*)	(*)
	IOWA.....	10	6	1 458	8 566	1 017	2 049	5 042	21 583	598	(*)	(*)
	SOUTH ATLANTIC.....	46	19	3 842	16 704	3 180	6 034	12 805	29 700	1 067	(*)	(*)
	MARYLAND.....	10	7	1 391	6 817	1 190	2 272	5 597	14 957	(D)	(*)	(*)
	VIRGINIA.....	4	3	331	1 321	263	550	981	1 660	35	(*)	(*)
	GEORGIA.....	9	3	353	1 262	297	511	854	1 082	134	(*)	(*)
	EAST SOUTH CENTRAL.....	25	21	7 566	32 869	6 219	11 129	25 122	54 026	4 904	(*)	(*)
	ALABAMA.....	5	4	735	2 565	639	1 234	1 856	3 988	204	(*)	(*)
	WEST SOUTH CENTRAL.....	36	16	1 418	6 010	1 083	2 044	3 688	12 553	755	(*)	(*)
	OKLAHOMA.....	5	3	238	1 270	192	365	699	2 510	51	(*)	(*)
	TEXAS.....	25	10	1 066	4 315	800	1 542	2 664	9 810	668	(*)	(*)
	MOUNTAIN.....	12	3	161	610	126	185	392	1 080	40	(*)	(*)
	PACIFIC.....	145	59	6 264	32 408	4 868	9 355	21 708	57 795	2 877	(*)	(*)
	WASHINGTON.....	18	8	374	1 772	284	527	1 273	2 379	116	(*)	(*)
	OREGON.....	11	3	180	858	132	251	595	1 195	44	(*)	(*)
	CALIFORNIA.....	116	48	5 710	29 778	4 452	8 577	19 840	54 221	2 717	(*)	(*)
344	STRUCTURAL METAL PRODUCTS, TOTAL	9 409	2 993	340 622	1 806 926	250 543	495 317	1 181 905	2 962 860	138 129	<sup>2</sup> 284 121	<sup>2</sup> 203 635
	NEW ENGLAND.....	601	153	13 720	71 999	10 212	20 258	45 879	117 111	6 439	9 758	65 302
	MAINE.....	25	7	542	3 282	386	914	1 980	5 141	368	1 409	8 435
	NEW HAMPSHIRE.....	25	5	446	2 005	351	722	1 354	3 467	125	294	2 009
	VERMONT.....	8	2	214	1 140	150	313	651	1 963	39	134	1 030
	MASSACHUSETTS.....	330	94	7 955	40 923	5 964	11 512	26 247	65 725	2 356	5 812	39 286
	RHODE ISLAND.....	56	9	873	4 310	657	1 304	2 826	6 976	296	678	4 737
	CONNECTICUT.....	157	36	3 690	20 339	2 704	5 493	12 821	33 839	3 255	1 428	9 802
	MIDDLE ATLANTIC.....	2 287	725	88 076	480 157	66 975	130 336	330 083	785 954	32 032	78 482	645 666
	NEW YORK.....	1 014	318	29 565	162 553	22 372	44 474	112 373	267 313	12 640	27 237	222 257
	NEW JERSEY.....	543	129	11 831	64 572	9 053	17 918	43 879	115 062	3 704	10 798	94 448
	PENNSYLVANIA.....	730	278	46 680	253 032	35 550	67 944	173 831	403 579	15 688	40 447	328 960
	EAST NORTH CENTRAL.....	2 101	724	89 047	496 144	62 719	125 348	309 722	812 524	38 408	82 482	688 621
	OHIO.....	570	211	30 584	169 113	21 223	42 333	105 317	277 357	16 810	29 223	246 545
	INDIANA.....	218	71	11 879	65 593	8 396	16 872	41 711	102 883	4 534	11 234	89 619
	ILLINOIS.....	624	216	21 640	120 798	16 045	31 812	78 036	211 990	7 495	16 516	149 146
	MICHIGAN.....	494	152	15 602	88 900	10 586	21 325	52 937	141 751	4 825	17 105	138 725
	WISCONSIN.....	195	74	9 342	51 740	6 469	13 006	31 721	78 543	4 744	8 403	64 585

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expenditures, new	All employees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
344	STRUCTURAL METAL PRODUCTS—CONTINUED											
	WEST NORTH CENTRAL . . . . .	644	214	24 978	130 717	18 347	36 838	84 069	221 859	9 527	19 235	144 549
	MINNESOTA . . . . .	140	48	4 707	25 685	3 591	7 340	16 849	43 476	1 662	3 337	26 141
	IOWA . . . . .	111	32	2 823	13 841	2 243	4 467	9 619	28 474	1 574	2 332	20 635
	MISSOURI . . . . .	225	74	11 493	60 698	8 242	16 443	38 924	94 052	3 751	8 534	65 669
	NORTH DAKOTA . . . . .	8	2	256	1 210	181	367	752	2 082	198	(*)	(*)
	SOUTH DAKOTA . . . . .	13	4	370	1 841	257	590	1 065	3 630	82	(*)	(*)
	NEBRASKA . . . . .	60	20	2 537	12 923	1 921	3 984	8 145	26 612	1 476	1 890	12 693
	KANSAS . . . . .	87	34	2 792	14 519	1 912	3 647	8 715	23 533	784	2 599	15 298
	SOUTH ATLANTIC . . . . .	1 044	333	31 277	141 559	22 721	44 749	87 685	228 576	11 651	21 424	137 524
	DELAWARE . . . . .	28	7	686	3 576	491	1 018	2 459	6 542	236	264	1 344
	MARYLAND . . . . .	139	47	3 867	19 391	2 584	4 943	10 808	33 453	1 145	3 334	24 713
	DISTRICT OF COLUMBIA . . . . .	16	8	472	2 494	326	636	1 448	3 947	102	309	2 229
	VIRGINIA . . . . .	112	47	5 706	28 737	3 820	7 713	16 215	35 464	2 314	4 267	23 655
	WEST VIRGINIA . . . . .	43	13	1 970	9 915	1 501	2 880	6 855	15 949	608	1 648	10 405
	NORTH CAROLINA . . . . .	119	35	2 995	13 570	2 251	4 485	8 958	21 977	926	2 601	19 671
	SOUTH CAROLINA . . . . .	72	18	1 612	6 476	1 181	2 386	3 999	14 229	873	828	5 075
	GEORGIA . . . . .	138	45	4 398	18 714	3 311	6 621	12 219	29 934	1 550	3 460	19 258
	FLORIDA . . . . .	377	113	9 571	38 686	7 256	14 067	24 724	67 081	3 897	4 709	31 168
	EAST SOUTH CENTRAL . . . . .	428	141	20 385	97 437	15 691	31 041	68 012	158 597	6 084	16 337	118 688
	KENTUCKY . . . . .	93	34	3 222	15 813	2 340	4 550	10 213	27 442	614	1 740	14 088
	TENNESSEE . . . . .	135	42	8 609	41 249	6 406	12 495	28 533	59 940	1 519	7 471	48 104
	ALABAMA . . . . .	141	47	6 608	33 207	5 295	10 802	23 870	56 653	3 056	5 958	48 984
	MISSISSIPPI . . . . .	59	18	1 946	7 168	1 650	3 194	5 396	14 562	895	1 168	7 512
	WEST SOUTH CENTRAL . . . . .	788	241	27 365	127 147	20 187	41 389	80 906	207 430	13 642	22 037	149 191
	ARKANSAS . . . . .	51	13	875	3 698	694	1 343	2 480	6 384	734	708	4 090
	LOUISIANA . . . . .	131	27	3 705	17 734	2 792	5 746	11 436	26 868	1 126	2 858	16 898
	OKLAHOMA . . . . .	116	34	5 699	29 288	3 822	7 997	16 405	52 447	4 503	5 840	44 542
	TEXAS . . . . .	490	167	17 086	76 427	12 879	26 303	50 585	121 731	7 279	12 629	83 659
	MOUNTAIN . . . . .	282	90	7 924	40 944	5 922	12 137	28 563	62 903	4 736	5 557	37 633
	MONTANA . . . . .	24	5	285	1 466	208	395	975	2 317	109	160	938
	COLORADO . . . . .	93	29	2 511	13 564	1 841	3 858	8 938	21 677	1 278	1 870	12 914
	ARIZONA . . . . .	45	13	1 464	7 710	1 100	2 350	5 856	11 068	604	1 091	5 145
	UTAH . . . . .	58	27	2 433	12 449	1 832	3 694	8 851	18 906	1 926	1 718	15 263
	PACIFIC . . . . .	1 234	372	37 850	220 822	27 769	53 221	146 986	367 906	15 610	28 805	216 458
	WASHINGTON . . . . .	170	45	4 005	23 321	3 130	5 887	16 694	37 222	1 297	2 871	22 716
	OREGON . . . . .	98	37	3 006	15 932	2 275	4 311	10 936	27 358	1 072	3 785	23 827
	CALIFORNIA . . . . .	966	290	30 839	181 569	22 364	43 023	119 356	303 326	13 241	22 148	169 914
345	SCREW MACHINE PRODUCTS & BOLTS, TOTAL	2 317	702	85 106	440 964	66 094	132 494	305 875	754 706	54 929	88 738	658 548
	NEW ENGLAND . . . . .	348	107	14 764	71 090	11 566	23 981	49 877	109 911	8 588	15 685	105 514
	MASSACHUSETTS . . . . .	104	39	6 465	31 573	5 057	10 759	22 521	47 431	2 283	6 802	44 656
	RHODE ISLAND . . . . .	45	15	1 360	5 929	1 113	2 263	4 218	9 368	356	(*)	(*)
	CONNECTICUT . . . . .	190	50	6 633	32 288	5 153	10 491	22 205	50 609	5 907	7 131	50 044
	MIDDLE ATLANTIC . . . . .	455	142	17 103	86 614	12 886	25 168	58 011	151 640	15 877	17 832	124 157
	NEW YORK . . . . .	193	59	5 241	25 697	4 122	8 357	17 974	45 977	3 427	5 715	39 564
	NEW JERSEY . . . . .	139	36	4 202	22 185	3 081	6 028	14 534	38 097	1 313	3 511	31 805
	PENNSYLVANIA . . . . .	123	47	7 660	38 732	5 683	10 783	25 503	67 566	11 137	8 603	52 786
	EAST NORTH CENTRAL . . . . .	1 104	338	41 924	224 676	32 713	65 155	157 357	375 717	20 031	46 162	360 993
	OHIO . . . . .	263	98	13 818	72 506	10 830	20 926	51 479	122 435	5 917	16 219	121 902
	INDIANA . . . . .	83	31	2 728	13 557	2 201	4 346	9 973	24 174	721	2 863	19 890
	ILLINOIS . . . . .	324	110	16 052	87 058	12 319	24 813	59 931	145 000	8 610	15 784	123 219
	MICHIGAN . . . . .	360	84	7 978	44 873	6 330	13 072	31 480	72 104	4 197	9 656	83 700
	WISCONSIN . . . . .	74	15	1 348	6 682	1 033	1 998	4 494	12 004	586	1 636	12 278
	WEST NORTH CENTRAL . . . . .	84	25	2 246	10 142	1 745	3 434	7 068	16 951	869	2 032	11 820
	MINNESOTA . . . . .	28	10	807	3 919	683	1 403	3 154	6 540	458	(*)	(*)
	IOWA . . . . .	11	4	139	518	115	217	385	913	27	130	520
	MISSOURI . . . . .	35	9	1 204	5 329	875	1 664	3 262	8 944	325	(*)	(*)
	SOUTH ATLANTIC . . . . .	27	9	1 378	5 811	1 182	2 308	4 135	12 525	504	928	6 439
	FLORIDA . . . . .	11	2	109	459	94	193	350	775	125	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	13	8	922	4 441	779	1 458	3 241	9 669	532	713	6 760
	ALABAMA . . . . .	9	6	785	3 801	664	1 207	2 749	8 461	464	707	6 740
	WEST SOUTH CENTRAL . . . . .	31	7	521	2 287	400	817	1 592	5 014	223	280	2 046
	OKLAHOMA . . . . .	7	2	115	537	100	215	457	1 084	38	(*)	(*)
	TEXAS . . . . .	24	5	406	1 750	300	602	1 135	3 930	185	217	1 604
	MOUNTAIN . . . . .	7	2	79	354	67	127	297	832	25	(*)	(*)
	PACIFIC . . . . .	248	64	6 169	35 549	4 756	10 046	24 295	72 447	(D)	5 058	40 402
	CALIFORNIA . . . . .	231	59	5 880	34 194	4 574	9 701	23 513	69 839	8 198	4 631	37 664
346	METAL STAMPINGS, TOTAL <sup>1</sup> . . . . .	2 456	1 041	125 567	645 683	99 974	200 401	458 566	1 049 311	50 439	135 472	960 557
347	METAL SERVICES, NEC, TOTAL . . . . .	3 649	734	52 151	224 320	43 435	84 288	167 688	362 163	20 553	48 371	284 515
	NEW ENGLAND . . . . .	426	82	5 801	22 645	4 935	9 667	17 021	35 983	1 864	5 382	29 263
	MASSACHUSETTS . . . . .	172	41	2 432	9 554	2 077	4 158	7 311	15 372	797	2 182	12 800
	RHODE ISLAND . . . . .	131	13	1 408	4 442	1 231	2 256	3 391	6 890	378	1 332	5 210
	CONNECTICUT . . . . .	115	27	1 905	8 385	1 583	3 169	6 154	13 362	685	(*)	(*)
	MIDDLE ATLANTIC . . . . .	955	178	13 077	54 318	11 003	21 564	41 191	86 655	4 301	12 666	74 063
	NEW YORK . . . . .	598	108	7 728	31 026	6 526	12 635	23 553	49 501	2 592	7 943	43 927
	NEW JERSEY . . . . .	209	38	2 848	12 097	2 396	4 625	9 095	18 900	892	2 461	15 293
	PENNSYLVANIA . . . . .	148	32	2 501	11 195	2 081	4 304	8 543	18 254	817	2 262	14 764

See footnotes at end of table.



## FABRICATED METAL PRODUCTS

34-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
347	METAL SERVICES, NEC--CONTINUED											
	NORTH CENTRAL . . . . .	1 313	307	21 358	95 768	17 597	34 151	70 246	152 824	8 460	(*)	(*)
	ILLINOIS . . . . .	380	103	7 769	35 731	6 320	12 541	26 117	57 266	3 264	2 300	14 000
	WISCONSIN . . . . .	72	16	879	3 871	734	1 377	2 894	5 509	291	586	3 719
	MINNESOTA . . . . .	49	8	673	3 271	541	1 067	2 327	5 380	216	(*)	(*)
	IOWA . . . . .	15	3	177	628	144	270	499	1 153	63	(*)	(*)
	KANSAS . . . . .	12	1	105	424	94	172	344	870	(D)	(*)	(*)
	SOUTH ATLANTIC . . . . .	114	14	1 325	5 035	1 097	2 204	3 772	9 180	682	(*)	(*)
	MARYLAND . . . . .	26	5	466	2 079	388	811	1 480	4 023	180	(*)	(*)
	SOUTH CAROLINA . . . . .	5	2	100	203	83	103	153	539	37	(*)	(*)
	GEORGIA . . . . .	13	3	235	831	196	468	632	1 427	122	180	894
	FLORIDA . . . . .	37	2	267	931	219	409	762	1 688	279	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	50	9	557	1 943	480	890	1 495	3 555	254	(*)	(*)
	TENNESSEE . . . . .	21	6	281	921	242	465	696	1 601	129	(*)	(*)
	ALABAMA . . . . .	13	3	173	676	149	263	505	1 348	89	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	128	27	1 972	7 198	1 706	3 157	5 698	12 686	996	(*)	(*)
	OKLAHOMA . . . . .	22	3	218	965	178	304	677	1 845	69	(*)	(*)
	TEXAS . . . . .	90	22	1 617	5 621	1 408	2 601	4 536	9 913	748	(*)	(*)
	MOUNTAIN . . . . .	47	4	344	1 314	266	540	1 127	2 356	210	(*)	(*)
	COLORADO . . . . .	21	2	140	632	112	210	474	1 110	83	(*)	(*)
	ARIZONA . . . . .	16	2	164	539	119	261	523	930	79	(*)	(*)
	PACIFIC . . . . .	616	113	7 717	36 099	6 351	12 115	27 138	58 924	3 786	5 647	36 744
	WASHINGTON . . . . .	29	2	186	978	150	283	683	1 574	386	(*)	(*)
	OREGON . . . . .	26	3	263	978	223	326	795	1 773	90	(*)	(*)
	CALIFORNIA . . . . .	561	108	7 268	34 143	5 978	11 506	25 660	55 577	3 310	5 366	35 043
348	FABRICATED WIRE PRODUCTS, NEC, TOTAL <sup>1</sup>	1 463	538	55 476	261 027	44 125	86 278	184 432	439 940	18 105	59 929	412 368
349	FABRICATED METAL PRODUCTS, NEC, TOTAL	2 183	873	137 333	715 223	101 976	199 275	478 102	1 300 456	59 627	(*)	(*)
	NEW ENGLAND . . . . .	171	67	14 255	68 120	10 335	20 252	44 265	112 678	4 574	(*)	(*)
	MASSACHUSETTS . . . . .	85	31	6 687	32 280	4 807	9 398	20 651	55 983	2 402	(*)	(*)
	RHODE ISLAND . . . . .	22	12	1 714	8 461	1 215	2 488	5 158	14 817	575	(*)	(*)
	CONNECTICUT . . . . .	55	21	5 695	26 775	4 173	8 100	18 002	40 867	1 573	(*)	(*)
	MIDDLE ATLANTIC . . . . .	631	262	33 674	171 029	25 380	49 119	115 453	317 898	13 086	(*)	(*)
	NEW YORK . . . . .	307	92	8 183	37 684	6 611	12 817	27 444	70 846	2 855	(*)	(*)
	NEW JERSEY . . . . .	142	67	8 686	47 560	6 095	12 006	29 031	82 238	4 681	(*)	(*)
	PENNSYLVANIA . . . . .	182	103	16 805	85 785	12 674	24 296	58 978	164 814	5 550	(*)	(*)
	EAST NORTH CENTRAL . . . . .	632	285	55 987	301 593	41 739	81 174	204 639	527 115	22 054	(*)	(*)
	OHIO . . . . .	189	85	16 967	86 292	12 794	24 967	61 061	173 794	5 568	(*)	(*)
	INDIANA . . . . .	73	39	6 175	32 536	4 561	9 041	20 339	60 251	2 688	(*)	(*)
	ILLINOIS . . . . .	196	91	23 279	131 072	17 261	33 001	88 036	218 154	10 085	(*)	(*)
	MICHIGAN . . . . .	140	56	8 048	43 780	6 062	12 142	30 370	62 315	2 862	(*)	(*)
	WISCONSIN . . . . .	34	14	1 518	7 913	1 061	2 023	4 833	12 447	851	(*)	(*)
	WEST NORTH CENTRAL . . . . .	100	31	5 593	28 723	4 023	8 051	17 914	64 136	2 170	(*)	(*)
	MINNESOTA . . . . .	28	6	1 159	5 920	898	1 740	3 932	11 288	470	(*)	(*)
	IOWA . . . . .	18	6	1 716	8 767	1 172	2 437	5 233	22 332	733	(*)	(*)
	MISSOURI . . . . .	34	11	1 931	10 382	1 342	2 583	6 138	20 110	363	(*)	(*)
	KANSAS . . . . .	13	5	527	2 635	408	834	1 880	4 857	112	(*)	(*)
	SOUTH ATLANTIC . . . . .	126	43	5 213	23 784	4 089	8 206	16 424	47 072	4 974	(*)	(*)
	DELAWARE . . . . .	7	5	718	4 069	528	1 092	2 552	6 279	300	(*)	(*)
	MARYLAND . . . . .	25	9	745	3 373	600	1 216	2 486	11 193	1 109	(*)	(*)
	WEST VIRGINIA . . . . .	11	6	1 268	6 000	1 060	2 100	4 498	12 879	2 535	(*)	(*)
	NORTH CAROLINA . . . . .	16	7	464	1 989	333	680	1 079	2 371	274	(*)	(*)
	GEORGIA . . . . .	14	3	408	1 780	333	660	1 367	3 546	129	(*)	(*)
	FLORIDA . . . . .	39	9	1 214	5 008	897	1 765	3 202	8 022	557	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	43	24	6 224	30 517	4 889	9 188	21 529	62 695	3 758	(*)	(*)
	KENTUCKY . . . . .	20	9	2 627	13 701	1 902	3 672	8 996	30 662	2 690	(*)	(*)
	ALABAMA . . . . .	13	11	2 693	12 736	2 208	4 058	9 188	23 899	943	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	139	59	6 877	37 177	4 824	9 809	23 394	73 983	4 204	(*)	(*)
	LOUISIANA . . . . .	16	7	629	3 412	528	1 035	2 534	7 175	(D)	(*)	(*)
	TEXAS . . . . .	89	40	8 803	26 643	3 201	6 371	15 928	53 519	2 850	(*)	(*)
	MOUNTAIN . . . . .	24	7	724	4 246	404	758	2 110	7 056	181	(*)	(*)
	COLORADO . . . . .	13	6	667	3 957	360	682	1 901	6 729	73	(*)	(*)
	PACIFIC . . . . .	317	95	8 786	50 034	6 293	12 718	32 374	87 823	4 626	(*)	(*)
	WASHINGTON . . . . .	18	3	143	676	100	177	472	1 090	159	(*)	(*)
	OREGON . . . . .	14	7	298	1 712	206	416	1 061	3 468	231	(*)	(*)
	CALIFORNIA . . . . .	285	85	8 345	47 646	5 987	12 125	30 841	83 265	4 236	(*)	(*)

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries to groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

<sup>2</sup>The 1954 data for this industry group are not strictly comparable with 1958 figures shown in the table. See Appendix A or section relating to the specified industry in 1958 Census of Manufactures, Volume II for further information on the comparability of 1958 and 1954 Statistics.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

	Fabricated metal products (SIC 34)	Metal cans (SIC 341)	Cutlery, hand tools, hardware (SIC 342)	Plumbing and non-electric heating (SIC 343)	Structural metal products (SIC 344)	Screw machine products and bolts (SIC 345)	Metal stampings (SIC 346)	Metal services, nec (SIC 347)	Fabricated wire products, nec (SIC 348)	Fabricated metal products, nec (SIC 349)
Number of establishments, total.....	24,782	222	2,094	989	9,409	2,317	2,456	3,649	1,463	2,183
With 1-19 employees.....	16,470	33	1,280	561	6,416	1,615	1,415	2,915	925	1,310
With 20-99 employees.....	6,139	76	530	261	2,329	535	767	680	397	564
With 100 employees or more.....	2,173	113	284	167	664	167	274	54	141	309
Proprietors and working partners...Number..	12,691	18	962	320	5,118	1,268	929	2,456	779	841
All employees:										
Number (average for the year).....	1,057,986	54,238	135,718	71,775	340,622	85,106	125,567	52,151	55,476	137,333
Payroll.....\$1,000..	5,412,405	303,885	656,911	357,466	1,806,926	440,964	645,683	224,320	261,027	715,223
Production workers:										
Number (average for the year).....	812,587	46,921	104,888	54,631	250,543	66,094	99,974	43,435	44,125	101,976
March.....	802,717	44,592	104,491	54,446	243,913	66,992	99,216	42,071	43,014	103,982
May.....	787,150	46,150	99,469	53,554	248,912	62,605	94,106	42,015	41,579	98,760
August.....	819,251	50,810	102,183	55,127	259,925	64,911	97,990	43,578	43,657	101,070
November.....	848,170	46,123	114,081	55,884	252,509	70,720	109,272	46,917	48,251	104,413
Man-hours.....1,000..	1,603,453	94,295	205,755	105,350	495,317	132,494	200,401	84,288	86,278	199,275
January-March.....do....	393,018	22,033	51,744	25,675	119,031	33,544	49,562	20,005	20,803	50,621
April-June.....do....	387,581	23,571	49,031	25,939	122,644	30,283	46,683	19,982	20,810	48,638
July-September.....do....	392,126	25,999	48,305	25,750	124,757	31,057	48,120	20,219	20,957	46,962
October-December.....do....	426,386	22,683	55,934	27,976	125,303	37,610	56,036	24,082	23,708	53,054
Wages.....\$1,000..	3,724,130	249,514	454,540	243,508	1,181,905	305,875	458,566	167,688	184,432	478,102
Value added by manufacture, adjusted.....do....	9,412,183	668,606	1,202,227	671,914	2,962,860	754,706	1,049,311	362,163	439,940	1,300,456
Cost of fuels consumed.....do....	91,722	6,597	10,719	9,375	22,438	6,522	10,707	8,052	3,555	13,757
Cost of electricity purchased.....do....	108,687	6,401	12,703	7,399	29,358	9,752	14,026	9,632	5,084	14,332
Manufacturers' inventories:										
Beginning of year, total.....do....	3,768,211	297,267	417,701	274,329	1,446,279	245,383	332,231	40,614	154,043	560,364
Finished products.....do....	988,129	85,987	127,775	121,002	209,212	105,400	85,275	5,298	59,776	188,404
Work-in-process.....do....	1,190,398	79,770	147,233	52,518	594,709	41,353	87,011	5,122	26,086	156,596
Materials, supplies, fuels, etc.....do....	1,589,684	131,510	142,693	100,809	642,358	98,630	159,945	30,194	68,181	215,364
End of year, total.....do....	3,534,046	335,636	389,334	264,801	1,288,004	236,872	315,047	44,911	140,195	519,246
Finished products.....do....	936,312	89,757	126,901	112,340	202,504	97,521	78,864	5,398	51,058	171,969
Work-in-process.....do....	1,106,131	90,199	138,270	52,385	513,821	44,216	82,620	6,634	25,802	152,184
Materials, supplies, fuels, etc.....do....	1,491,603	155,680	124,163	100,076	571,679	95,135	153,563	32,879	63,335	195,093
Expenditures for plant and equipment, total.....do....	503,541	55,126	42,928	27,838	147,647	60,012	60,584	22,626	20,673	66,107
New, total.....do....	458,397	52,881	37,827	25,907	138,129	54,929	50,439	20,553	18,105	59,627
New structures and additions to plant.....do....	144,859	17,464	5,885	6,868	53,311	20,462	15,117	6,188	5,226	14,338
New machinery and equipment.....do....	313,538	35,417	31,942	19,039	84,818	34,467	35,322	14,365	12,879	45,289
Used plant and equipment.....do....	45,144	2,245	5,101	1,931	9,518	5,083	10,145	2,073	2,568	6,480

Note: Detailed figures may not add to totals because of independent rounding.



# Metal Cans, Cutlery, Hand Tools, and General Hardware

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3411--Metal Cans
- 3421--Cutlery
- 3423--Hand and Edge Tools, Except  
Machine Tools and Hand Saws
- 3425--Hand Saws and Saw Blades
- 3429--Hardware, Not Elsewhere Clas-  
sified

## 3411--Metal Cans

This industry comprises establishments primarily engaged in manufacturing metal cans from purchased tinplate, terneplate, blackplate, or enameled sheet metal. For a detailed list of products of Industry 3411, refer to table 6A, product codes 3411011 to 3411091.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged but the content of the industry has been slightly changed from the previous classification system. Metal fluid milk shipping and delivery containers (except crates) formerly classified in this industry are now considered primary to Industry 3491, Metal Barrels, Drums, Kegs and Pails.

Value of shipments and other receipts of the Metal Cans Industry in 1958 totaled \$1,824 million. This included shipments of metal cans (primary products) valued at \$1,747 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts (mainly sales of products bought and resold) of \$42 million.

This industry's shipments of metal cans (primary products) in 1958 represented 98 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 98 percent. Secondary products shipped by this industry in 1958 included metal stampings, \$5 million, and metal barrels, drums and pails, \$11 million.

Industry 3411 shipments of metal cans (primary products) in 1958 represented 99 percent (coverage ratio) of these products valued at \$1,762 million shipped by all industries. In 1954, the coverage ratio was 99 percent.

Detailed figures on the shipments of metal cans are collected on a monthly basis by the Bureau of the Census on Form M34D. Table 6A shows totals for the data collected in the monthly survey and in the Census of Manufactures for the same period. The differences are due to minor revisions in the reports for some companies and the inclusion of establishments in Hawaii in the monthly survey which are not included in the Census of Manufactures data. Both the Census of Manufactures data for Industry 3411 and the monthly survey include data for "captive" production, that is, the production of cans for use by the producing company. Most of these "captive" establishments are part of food, petroleum, and paint companies.

The monthly survey data are reported in terms of base boxes of steel consumed in the manufacture of cans. These base boxes have been converted to short tons on the basis of the conversion factors as shown in the table appearing below.

Certain of the larger companies operating establishments classified in Industry 3411 also have establishments producing other types of metal containers as well as containers made of other materials and which are classified in other industries; for example: steel shipping barrels, drums and pails in Industry 3491, Metal Barrels, Drums and Pails; paper and paperboard boxes, drums, etc., in Major Group 26, Paper and Allied Products.

Type of can	Base boxes per short ton of steel
Fruit and vegetable (including juice).....	21.4
Evaporated and condensed milk.....	25.0
Other dairy products.....	20.4
Meat (including poultry).....	21.7
Fish and seafood.....	23.0
Coffee.....	21.3
Lard and shortening.....	21.7
Soft drink.....	22.1
Beer.....	20.6
Pet food.....	24.0
Oil, open-top (1 quart and 5 quart) .....	23.3
All other food (including soup and baby food cans).....	23.0
All other nonfood.....	21.2



3421--Cutlery

This industry comprises establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in Industry 3914; those manufacturing electric razors in Industry 3634; and those manufacturing hair clippers for human use in Industry 3999, and for animal use in Industry 3522. For a detailed list of products of Industry 3421, refer to table 6A, product codes 3421111 to 3421251.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. Power hedge trimmers and shears previously included in this industry are now included in Industry 3522, Farm Machines and Equipment.

Value of shipments and other receipts of the Cutlery Industry in 1958 totaled \$179 million. This included shipments of cutlery (primary products) valued at \$159 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly resales) of \$8 million.

This industry's shipments of cutlery (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 88 percent. Secondary products shipped by this industry in 1958 included edge tools, \$2 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 50 percent of the total industry shipments are represented by plants specializing in razor blades and razors, except electric; and 47 percent in cutlery, scissors, shears, trimmers and snips.

Industry 3421 shipments of cutlery (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$162 million shipped by all industries. In 1954, the coverage ratio was 96 percent.

3423--Hand and Edge Tools, Except Machine Tools and Hand Saws

This industry comprises establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in Industry 3425; and metal cutting dies and power driven hand tools, and attachments

and accessories for machine tools in Major Group 35. For a detailed list of products of Industry 3423, refer to table 6A, product codes 3423111 to 3423398.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A. Old Industries 3422, Edge Tools, and 3424, Files have been added to this industry. In addition, electric soldering irons previously included in Industry 3621, Electrical Appliances, are now included in this industry.

Value of shipments and other receipts of the Hand and Edge Tools Industry in 1958 totaled \$440 million. This included shipments of hand and edge tools (primary products) valued at \$368 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts (mainly resales) of \$37 million.

This industry's shipments of hand and edge tools, (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included hand saws and saw blades and saw accessories, \$4 million, and metal stampings, \$5 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 44 percent of the total industry shipments are represented by plants specializing in mechanics' hand service tools; and 34 percent in files, rasps, file accessories and other hand tools.

Industry 3423 shipments of hand and edge tools, (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$434 million shipped by all industries. Other industries shipping hand and edge tools (primary products) included Industry 3425, Hand Saws and Saw Blades, \$10 million.

3425--Hand Saws and Saw Blades

This industry comprises establishments primarily engaged in manufacturing hand saws and saw blades for hand and power driven saws. Establishments primarily engaged in manufacturing power driven sawing machines are classified in Major Group 35. For a detailed list of products of Industry 3425, refer to table 6A, product codes 3425011 to 3425049.



The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Hand Saws and Saw Blades Industry in 1958 totaled \$88 million. This included shipments of hand saws and saw blades (primary products) valued at \$68 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts (mainly resales) of \$5 million.

This industry's shipments of hand saws and saw blades (primary products) in 1958 represented 82 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 71 percent. Secondary products shipped by this industry in 1958 included edge tools, \$11 million.

Industry 3425 shipments of hand saws and saw blades (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$76 million shipped by all industries. In 1954, the coverage ratio was 90 percent. Other industries shipping hand saws and saw blades (primary products) included Industry 3423, Hand and Edge Tools, \$4 million.

#### 3429--Hardware, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware" and not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in Industry 3452, nails and spikes in Major Group 33, cutlery in Industry 3421, hand tools in Industry 3423, and pole line and transmission hardware in Major Group 36. For a detailed list of products of Industry 3429, refer to table 6A, product codes 3429111 to 3429598.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. Pipe hangers and pipe supports previously included in this industry are now included in Industry 3494, Valves and Pipe Fittings.

Value of shipments and other receipts of the Hardware, N.E.C. Industry in 1958 totaled \$1,348 million. This included shipments of hardware, n.e.c. (primary products) valued at \$1,144 million, shipments of other products (secondary products) valued at \$143 million, and miscellaneous receipts (mainly resales) of \$61 million.

This industry's shipments of hardware, n.e.c. (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 86 percent. Secondary products shipped by this industry in 1958 included fabricated metal products, n.e.c., \$9 million; metal stampings, \$8 million; and edge tools, \$6 million.

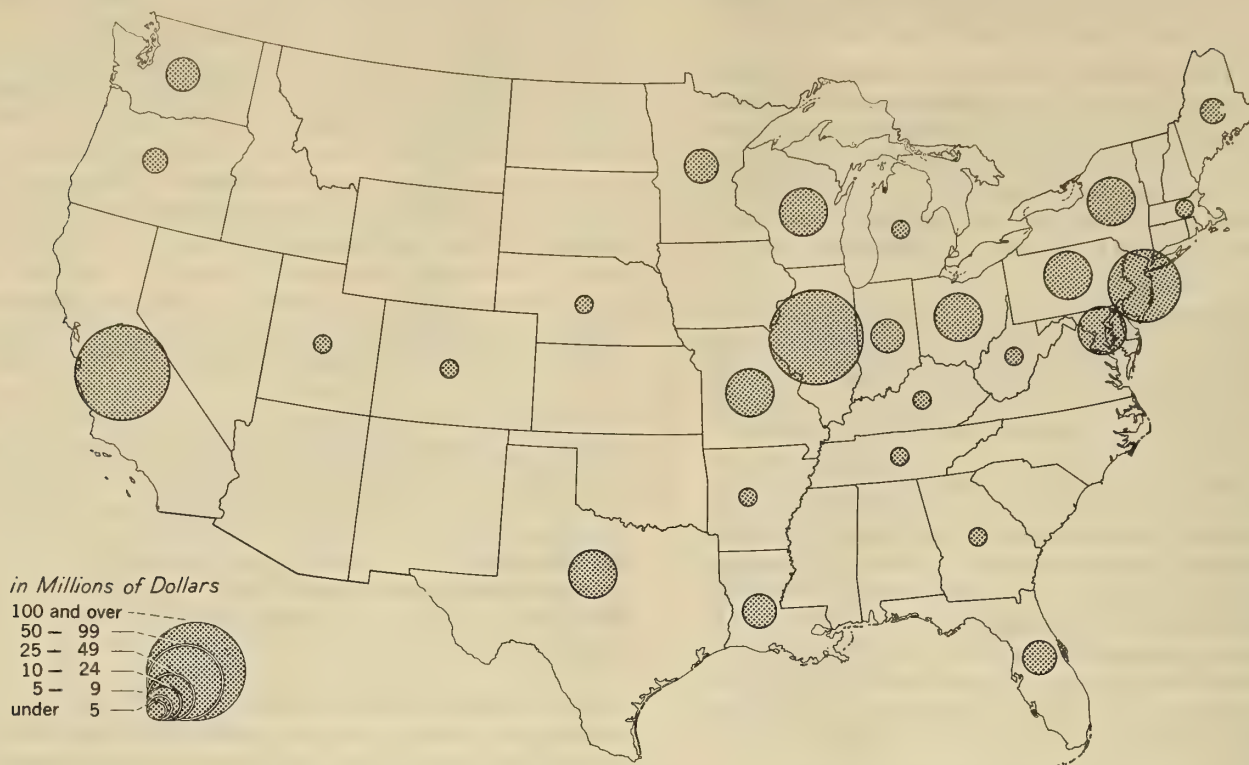
While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 40 percent of the total industry shipments are represented by plants specializing in transportation equipment hardware; and 33 percent in builders' hardware.

Industry 3429 shipments of hardware, n.e.c. (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$1,224 million shipped by all industries. In 1954, the coverage ratio was 90 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

**METAL CANS: SIC 341**

Value Added by Manufacture by State: 1958

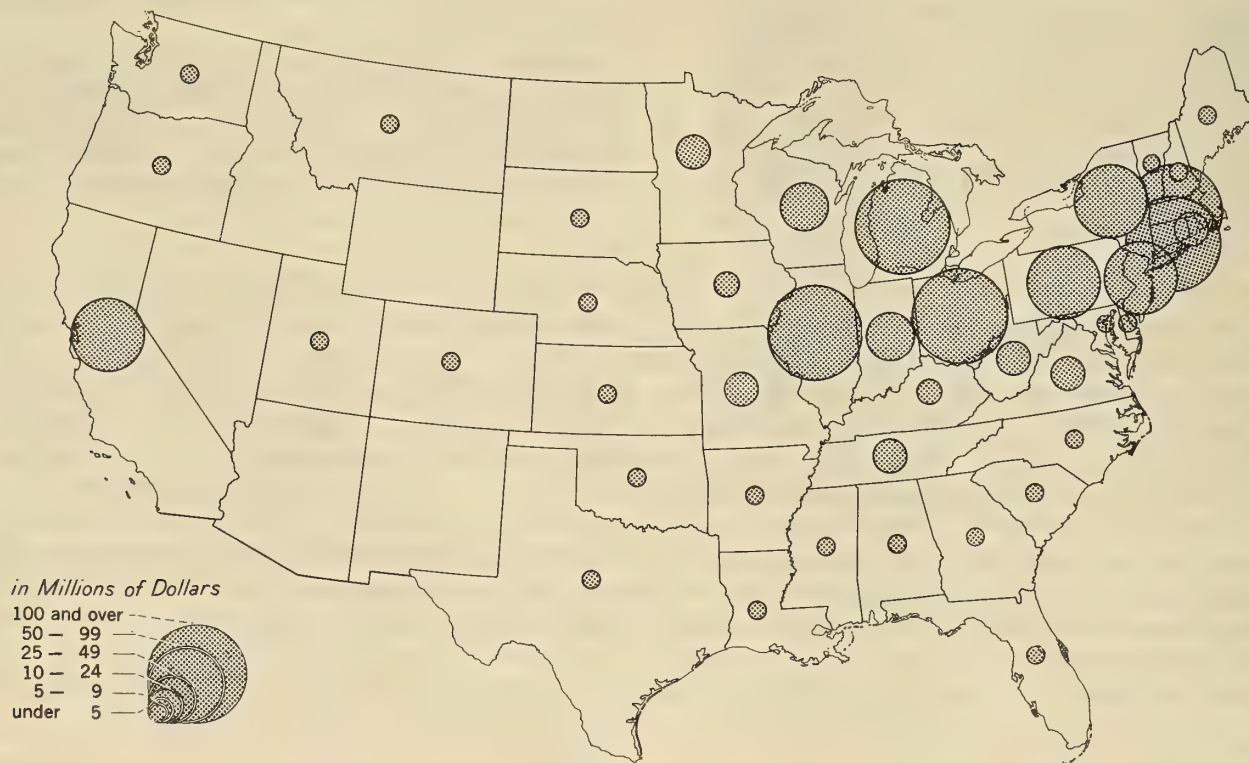


Includes only Industry 3411. See Table 2.

Bureau of the Census. M-58-D341

**CUTLERY, HAND TOOLS, AND GENERAL HARDWARE: SIC 342**

Value Added by Manufacture by State: 1958



Includes Industries 3421, 3423, 3425 and 3429. See Table 2.

Bureau of the Census. M-58-D342



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ial- iza- tion ratio <sup>6</sup> (per- cent)	Cov- er- age ratio <sup>7</sup> (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3411 (old SIC 3411)	Metal cans:														
	1958 <sup>8</sup>	82	222	189	54,238	303,885	46,921	94,295	249,514	668,606	1,169,699	1,824,106	52,881	98	99
	1957 <sup>9</sup>	(NA)	(NA)	(NA)	54,777	290,224	47,502	96,998	238,549	647,888	1,063,708	1,694,461	46,529	98	99
	1956 <sup>9</sup>	(NA)	(NA)	(NA)	55,083	277,640	47,986	99,274	229,983	631,040	1,037,981	1,646,655	47,713	(NA)	(NA)
	1955 <sup>9</sup>	(NA)	(NA)	(NA)	54,506	255,707	47,359	96,784	211,287	570,551	898,585	1,461,795	43,762	(NA)	(NA)
	1954 <sup>10</sup>	109	227	175	55,234	245,134	48,008	97,574	202,112	500,408	897,795	1,381,359	50,093	98	99
	1953 <sup>9</sup>	(NA)	(NA)	(NA)	55,719	225,224	48,541	97,877	184,439	469,816	858,590	1,328,406	30,761	(NA)	(NA)
	1952 <sup>9</sup>	(NA)	(NA)	(NA)	52,203	209,627	45,281	94,604	172,900	424,877	786,483	1,211,360	26,836	(NA)	(NA)
	1951 <sup>9</sup>	(NA)	(NA)	(NA)	53,392	196,046	46,406	95,331	160,966	392,087	794,010	1,186,097	38,962	(NA)	(NA)
	1950 <sup>9</sup>	(NA)	(NA)	(NA)	51,611	171,962	44,855	93,814	141,900	342,210	734,214	1,076,424	38,988	(NA)	(NA)
	1949 <sup>9</sup>	(NA)	(NA)	(NA)	46,744	145,797	40,218	85,348	117,753	275,311	625,614	900,925	29,651	(NA)	(NA)
	1947 <sup>10</sup>	102	215	172	46,760	126,941	40,779	84,715	105,394	231,503	447,421	678,924	20,183	97	99
	1939 <sup>11</sup>	(NA)	195	(NA)	(NA)	(NA)	29,277	(NA)	33,722	116,152	242,669	358,821	(NA)	(NA)	(NA)
	1937 <sup>11</sup>	(NA)	224	(NA)	38,330	48,426	33,145	(NA)	37,194	113,686	245,110	358,796	(NA)	(NA)	(NA)
	1935 <sup>12</sup>	(NA)	204	(NA)	31,674	37,067	27,484	(NA)	27,826	86,270	206,118	292,388	(NA)	(NA)	(NA)
	1933 <sup>12</sup>	(NA)	194	(NA)	25,883	27,604	23,343	(NA)	22,693	70,900	137,046	207,946	(NA)	(NA)	(NA)
	1931 <sup>12</sup>	(NA)	199	(NA)	(NA)	(NA)	25,271	(NA)	27,978	74,513	149,121	223,634	(NA)	(NA)	(NA)
	1929 <sup>12</sup>	(NA)	232	(NA)	35,254	46,461	31,497	(NA)	38,173	101,914	194,987	296,901	(NA)	(NA)	(NA)
	1927 <sup>12</sup>	(NA)	236	(NA)	33,056	42,400	29,721	(NA)	35,001	84,058	169,421	253,479	(NA)	(NA)	(NA)
	1925 <sup>12</sup>	(NA)	221	(NA)	33,234	41,063	29,901	(NA)	34,392	84,581	175,779	260,360	(NA)	(NA)	(NA)
	1923 <sup>12</sup>	(NA)	241	(NA)	35,036	41,933	30,511	(NA)	32,816	79,991	135,980	215,971	(NA)	(NA)	(NA)
	1921 <sup>12</sup>	(NA)	244	(NA)	25,168	29,943	22,711	(NA)	24,595	59,557	108,748	168,305	(NA)	(NA)	(NA)
	1919 <sup>12</sup>	(NA)	301	(NA)	38,781	42,703	34,386	(NA)	34,493	68,793	165,171	233,964	(NA)	(NA)	(NA)
	1914 <sup>12</sup>	(NA)	294	(NA)	25,130	15,660	22,584	(NA)	12,217	28,090	53,841	81,931	(NA)	(NA)	(NA)
	1909 <sup>12</sup>	(NA)	318	(NA)	(NA)	(NA)	19,754	(NA)	8,675	19,541	39,273	58,814	(NA)	(NA)	(NA)
	1904 <sup>13</sup>	(NA)	377	(NA)	18,135	8,872	16,919	(NA)	6,842	15,645	26,248	41,893	(NA)	(NA)	(NA)
3421 (old SIC 3421)	Cutlery:														
	1958 <sup>8</sup>	178	183	72	11,831	52,745	9,107	17,986	34,875	126,310	51,146	179,271	2,370	93	98
	1957 <sup>9</sup>	(NA)	(NA)	(NA)	14,421	62,769	11,411	22,060	41,366	133,563	57,094	191,545	2,654	89	96
	1956 <sup>9</sup>	(NA)	(NA)	(NA)	14,905	63,154	11,825	23,782	42,210	141,374	57,547	191,018	3,388	(NA)	(NA)
	1955 <sup>9</sup>	(NA)	(NA)	(NA)	15,226	60,532	12,137	24,661	40,804	130,497	53,836	172,991	4,272	(NA)	(NA)
	1954 <sup>10</sup>	179	182	79	15,102	56,062	12,362	24,578	39,609	120,951	50,642	173,565	2,393	88	96
	1953 <sup>9</sup>	(NA)	(NA)	(NA)	17,251	66,612	14,061	28,367	47,067	137,131	59,744	196,875	(NA)	(NA)	(NA)
	1952 <sup>9</sup>	(NA)	(NA)	(NA)	17,068	61,705	14,323	27,919	45,239	123,743	46,253	169,996	(NA)	(NA)	(NA)
	1951 <sup>9</sup>	(NA)	(NA)	(NA)	20,667	70,391	17,853	36,048	52,715	126,555	59,451	186,006	(NA)	(NA)	(NA)
	1950 <sup>9</sup>	(NA)	(NA)	(NA)	21,305	61,442	18,341	35,424	45,980	126,852	49,729	176,581	(NA)	(NA)	(NA)
	1949 <sup>9</sup>	(NA)	(NA)	(NA)	18,616	53,546	15,866	32,380	39,795	101,066	43,112	144,178	(NA)	(NA)	(NA)
	1947 <sup>10</sup>	192	195	97	20,248	54,142	17,579	37,219	42,350	104,833	37,738	142,571	5,774	93	94
	1939 <sup>11</sup>	(NA)	124	(NA)	(NA)	(NA)	10,252	(NA)	10,768	28,381	14,400	42,781	(NA)	(NA)	(NA)
3423 (old SIC 3422, 3423 and 3424)	Hand and edge tools:														
	1958 <sup>8</sup>	731	763	250	30,273	142,551	23,626	45,720	99,674	267,316	168,173	440,150	8,588	91	85
	1954 <sup>10</sup>	(NA)	780	261	33,397	134,138	27,398	53,053	98,270	229,241	140,964	375,672	9,383	(NA)	(NA)
	1952 <sup>9</sup>	(NA)	(NA)	(NA)	42,373	160,750	34,348	69,149	118,286	267,521	146,423	413,944	(NA)	(NA)	(NA)
	1951 <sup>9</sup>	(NA)	(NA)	(NA)	43,737	160,537	36,063	74,705	120,817	266,364	154,450	420,814	(NA)	(NA)	(NA)
	1950 <sup>9</sup>	(NA)	(NA)	(NA)	41,479	138,301	33,596	66,901	99,138	234,309	129,177	363,486	(NA)	(NA)	(NA)
	1947 <sup>10</sup>	(NA)	852	(NA)	48,345	137,183	41,422	(NA)	107,005	230,890	123,443	354,333	(NA)	(NA)	(NA)
	1939 <sup>11</sup>	(NA)	539	(NA)	3,728	4,909	22,816	(NA)	26,874	68,134	34,046	102,180	(NA)	(NA)	(NA)
3425 (old SIC 3425)	Hand saws and saw blades:														
	1958 <sup>8</sup>	82	89	38	5,509	28,311	4,077	7,883	18,482	53,658	32,799	87,626	1,225	82	90
	1957 <sup>9</sup>	(NA)	(NA)	(NA)	6,197	31,375	4,763	9,015	21,167	59,714	35,608	93,452	1,961	(NA)	(NA)
	1956 <sup>9</sup>	(NA)	(NA)	(NA)	7,249	34,047	5,705	11,056	23,884	65,852	40,707	103,477	2,462	(NA)	(NA)
	1955 <sup>9</sup>	(NA)	(NA)	(NA)	7,415	32,544	5,906	11,474	23,210	57,933	37,023	93,841	(S)	(NA)	(NA)
	1954 <sup>10</sup>	95	99	42	6,879	29,287	5,327	10,320	19,927	51,097	33,834	88,426	1,582	71	90
	1953 <sup>9</sup>	(NA)	(NA)	(NA)	7,712	32,335	6,076	12,976	23,603	52,701	35,243	87,944	(NA)	(NA)	(NA)
	1952 <sup>9</sup>	(NA)	(NA)	(NA)	6,831	27,882	5,241	11,255	19,819	49,051	30,145	79,196	(NA)	(NA)	(NA)
	1951 <sup>9</sup>	(NA)	(NA)	(NA)	7,946	33,477	6,435	14,487	25,444	59,407	40,525	99,932	(NA)	(NA)	(NA)
	1950 <sup>9</sup>	(NA)	(NA)	(NA)	7,366	27,139	5,861	12,046	20,064	50,310	25,138	75,448	(NA)	(NA)	(NA)
	1947 <sup>10</sup>	81	89	43	8,441	25,600	7,380	15,543	20,872	42,975	27,455	70,430	(NA)	78	87
	1939 <sup>11</sup>	(NA)	87	(NA)	4,902	7,097	4,072	(NA)	5,198	11,686	6,785	18,471	(NA)	(NA)	(NA)
	1937 <sup>11</sup>	(NA)	80	(NA)	4,953	7,043	4,384	(NA)	5,576	12,438	7,415	19,853	(NA)	(NA)	(NA)
	1935 <sup>11</sup>	(NA)	82	(NA)	4,156	5,239	3,425	(NA)	3,731	8,426	5,223	13,649	(NA)	(NA)	(NA)
	1933 <sup>11</sup>	(NA)	71	(NA)	3,129	3,213	2,528	(NA)	2,347	6,923	3,003	9,926	(NA)	(NA)	(NA)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3429 (old SIC 3429)	Hand saws and saw blades—Continued														
	1931.....	(NA)	78	(NA)	(NA)	(NA)	3,005	(NA)	3,084	7,537	4,035	11,572	(NA)	(NA)	(NA)
	1929.....	(NA)	81	(NA)	5,077	8,002	4,137	(NA)	5,727	15,731	6,884	22,615	(NA)	(NA)	(NA)
	1927.....	(NA)	77	(NA)	5,134	7,873	4,182	(NA)	5,754	14,954	7,674	22,628	(NA)	(NA)	(NA)
	1925.....	(NA)	71	(NA)	5,534	7,626	4,710	(NA)	5,873	16,485	8,224	24,709	(NA)	(NA)	(NA)
	1923.....	(NA)	80	(NA)	6,373	8,959	5,420	(NA)	6,730	21,047	9,740	30,787	(NA)	(NA)	(NA)
	1921.....	(NA)	79	(NA)	4,570	6,099	3,788	(NA)	4,087	11,705	6,480	18,185	(NA)	(NA)	(NA)
	1919.....	(NA)	112	(NA)	6,621	8,672	5,510	(NA)	6,281	19,669	11,792	31,461	(NA)	(NA)	(NA)
	1914.....	(NA)	100	(NA)	5,411	4,174	4,560	(NA)	3,019	7,803	4,714	12,517	(NA)	(NA)	(NA)
	1909.....	(NA)	96	(NA)	5,673	3,823	4,832	(NA)	2,856	6,624	4,912	11,536	(NA)	(NA)	(NA)
	1904.....	(NA)	83	(NA)	5,226	3,331	4,650	(NA)	2,707	5,784	4,036	9,820	(NA)	(NA)	(NA)
	1899.....	(NA)	86	(NA)	3,527	2,022	3,215	(NA)	1,693	3,844	2,600	6,444	(NA)	(NA)	(NA)
	Hardware, nec:														
	1958.....	1,022	1,059	454	88,105	433,304	68,078	134,166	301,509	754,943	590,744	1,347,879	25,644	89	93
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	92,732	450,273	74,463	150,757	328,117	783,191	585,763	1,359,422	35,559	89	91
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	92,887	428,748	75,418	153,489	316,108	766,578	561,657	1,312,616	51,944	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	99,200	444,002	83,055	170,346	341,966	821,526	545,345	1,344,590	53,820	(NA)	(NA)
	1954.....	852	869	361	88,296	380,464	72,708	147,920	286,371	638,962	483,219	1,126,335	47,436	86	90
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	93,437	390,337	78,780	162,619	303,897	632,739	495,595	1,128,334	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	76,780	309,364	63,188	130,246	233,198	502,883	350,620	853,503	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	82,972	309,587	69,043	141,380	235,617	531,810	383,235	915,045	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	83,500	283,741	70,310	144,601	217,638	507,878	339,168	847,046	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	75,885	242,860	62,859	126,764	181,740	395,194	296,372	691,566	(NA)	(NA)	(NA)
	1947.....	(NA)	730	(NA)	77,473	216,558	65,611	133,018	169,642	350,511	235,499	586,010	(NA)	89	91
	1939 <sup>11</sup> .....	(NA)	462	(NA)	(NA)	(NA)	38,035	(NA)	43,373	100,767	66,615	167,382	(NA)	(NA)	(NA)

NA Not available. <sup>11</sup>Revised.<sup>8</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry code	Value added (\$1,000)	Industry code	Value added (\$1,000)
3411	482,297	3425	53,246
3421	122,357	3429	639,578

<sup>4</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry code	Cost of materials, etc. (\$1,000)		Industry code	Cost of materials, etc. (\$1,000)	
	1958	1954		1958	1954
3411	1,145,009	884,469	3425	30,115	30,435
3421	47,389	47,392	3429	564,248	471,950
3423	146,642	124,784			

<sup>5</sup> For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry code	Value of shipments (\$1,000)		Industry code	Value of shipments (\$1,000)	
	1958	1954		1958	1954
3411	1,796,545	1,366,766	3425	84,186	83,682
3421	174,612	169,750	3429	1,311,109	1,111,529
3423	410,022	354,026			

<sup>6</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>7</sup> The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

Footnotes continued on next page.



Footnotes for Table 1-34A

<sup>8</sup>Figures for 1958 and 1929 and earlier years do not include data for dairymen's tin ware.<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>10</sup>A number of small establishments were misclassified into Industry 3411 that should have been tabulated in the data for other industries. This affects the total establishment and total company counts and the number of establishments in the smaller size classes for Industry 3411 but has no appreciable effect on the employment, value of shipments and other statistics for this industry.<sup>11</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$123.6 million for Metal Cans.<sup>12</sup>Data for stamped tinware other than tin cans are excluded from the figures for 1929-1935 but not for earlier years.<sup>13</sup>"Metal Cans" was formerly a part of the discontinued industry "Tinsmithing, coppersmithing and sheet iron working." Separate figures for 1899 are, therefore, not available.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3423—Hand and edge tools.....	763	250	30,273	267,316	xxx	xxx	xxx	xxx
Old Industry 3422—Edge tools.....	237	76	6,754	55,422	237	76	6,754	55,422
Old Industry 3423—Hand tools, nec.....	494	161	21,037	186,098	494	161	21,037	186,098
Old Industry 3424—Files.....	25	7	2,035	20,068	25	7	2,035	20,068
Other industries including old Industry 3621—Electrical appliances.....	7	6	447	5,728	xxx	xxx	xxx	xxx

\* Revised.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3411	Metal cans, total...	222	189	54,238	303,885	46,921	94,295	249,514	668,606	1,824,106	52,881	55,234	482,297	46,760
	New England.....	6	6	748	3,918	616	1,181	2,858	9,390	26,430	( <sup>2</sup> )	859	7,060	952
	Middle Atlantic...	58	42	13,835	74,847	12,142	24,135	62,310	150,718	390,744	21,889	13,657	110,176	11,972
	New York.....	30	16	3,830	19,678	3,327	6,761	16,052	36,656	95,226	17,031	4,171	29,141	4,450
	New Jersey.....	14	14	5,637	31,808	4,998	9,637	26,759	72,370	175,272	3,432	4,973	48,392	3,775
	Pennsylvania....	14	12	4,368	23,361	3,817	7,737	19,499	41,692	120,246	1,426	4,513	32,643	3,747
	North Central....	66	61	19,912	113,096	17,121	34,572	92,156	264,268	657,491	15,098	22,142	195,847	17,778
	Illinois.....	23	23	11,233	64,712	9,651	19,352	52,871	128,821	303,122	5,676	13,456	106,813	12,082
	Wisconsin.....	9	7	2,025	11,224	1,810	3,646	9,606	33,466	93,873	1,634	1,918	26,661	398
	Minnesota.....	3	3	842	4,593	745	1,478	3,765	18,858	41,420	1,118	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Missouri.....	6	5	2,243	13,099	1,984	4,178	11,084	36,403	93,312	1,542	2,449	22,880	1,539
	South Atlantic....	22	22	6,198	35,265	5,311	11,198	28,791	63,937	202,249	3,576	6,421	54,509	6,719
	Maryland.....	10	10	4,269	23,731	3,711	7,782	19,733	38,833	119,939	1,084	4,516	34,053	4,948
	Florida.....	8	8	1,591	9,801	1,305	2,807	7,653	20,820	69,889	2,355	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central	6	3	221	890	202	414	775	2,551	11,494	( <sup>2</sup> )	270	2,966	350
	West South Central	12	10	3,429	20,532	2,916	5,889	16,693	43,959	126,448	2,407	3,043	27,005	2,485
	Texas.....	7	6	2,117	12,554	1,783	3,528	10,012	26,448	76,997	1,917	1,935	16,664	1,672
	Mountain.....	4	4	294	1,676	250	511	1,326	4,948	16,666	( <sup>2</sup> )	223	495	(D)
	Pacific.....	48	41	9,601	53,661	8,363	16,395	44,605	128,735	392,584	9,381	8,616	84,236	(D)
	California.....	39	32	8,129	45,488	7,103	13,869	38,052	109,886	328,832	8,337	7,353	69,609	5,328

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted, (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3421	Cutlery, total.....	183	72	11,831	52,745	9,107	17,986	34,875	126,310	179,271	2,370	15,102	122,357	20,248
	New England.....	33	20	4,884	23,041	3,604	6,966	14,673	73,213	96,126	1,321	6,451	63,776	8,444
	Connecticut.....	17	11	1,645	7,008	1,337	2,636	5,254	11,346	17,278	(2)	1,973	11,768	2,146
	Middle Atlantic...	80	37	4,842	20,349	3,994	7,950	15,018	33,652	53,890	588	6,956	48,947	10,034
	New York.....	37	22	2,724	11,391	2,209	4,335	8,321	17,860	31,330	(2)	4,527	32,387	5,856
	New Jersey.....	33	10	1,547	6,652	1,280	2,579	4,886	12,298	17,384	(2)	2,035	14,235	3,516
	Pennsylvania.....	10	5	571	2,306	505	1,036	1,811	3,494	5,176	(2)	393	2,324	662
	North Central.....	41	9	729	3,060	608	1,180	2,194	5,685	9,517	(2)	867	5,436	1,352
	Ohio.....	13	5	394	1,560	329	621	1,108	3,168	5,046	(2)	634	3,907	1,052
	South and West....	29	6	1,376	6,295	901	1,890	2,990	13,760	19,738	(2)	827	4,196	418
3423	Hand and edge tools, total.....	763	250	30,273	142,551	23,626	45,720	99,674	267,316	440,150	8,588	(4)	(4)	(4)
	New England.....	138	50	6,265	28,524	4,954	9,637	20,619	48,572	78,879	1,189	(4)	(4)	(4)
	New Hampshire...	6	4	184	630	158	313	507	960	1,472	(2)	(4)	(4)	(4)
	Massachusetts.....	67	24	2,926	13,539	2,265	4,442	9,287	22,039	36,503	646	(4)	(4)	(4)
	Connecticut.....	31	12	2,024	9,025	1,562	2,967	6,473	16,491	27,571	(2)	(4)	(4)	(4)
	Middle Atlantic...	186	67	7,375	33,762	5,951	11,442	24,758	63,432	104,617	2,130	(4)	(4)	(4)
	New York.....	90	26	3,546	16,879	2,828	5,441	12,487	30,418	50,907	1,146	(4)	(4)	(4)
	New Jersey.....	37	12	1,540	6,390	1,293	2,630	4,874	12,714	22,170	(D)	(4)	(4)	(4)
	Pennsylvania.....	59	29	2,289	10,493	1,830	3,371	7,397	20,300	31,540	(D)	(4)	(4)	(4)
	East North Central	229	74	1,045	49,406	7,566	14,663	33,104	98,601	163,323	3,484	(4)	(4)	(4)
	Ohio.....	69	30	4,410	22,241	3,428	6,738	15,564	40,745	67,350	1,598	(4)	(4)	(4)
	Illinois.....	67	23	3,369	17,029	2,329	4,484	10,285	33,219	52,870	894	(4)	(4)	(4)
	Michigan.....	49	10	658	2,946	483	959	1,893	5,190	8,765	(2)	(4)	(4)	(4)
	West North Central	71	30	2,985	13,900	2,437	4,941	9,960	24,170	40,527	(2)	(4)	(4)	(4)
	Minnesota.....	21	7	853	4,054	659	1,321	2,729	6,533	11,605	(2)	(4)	(4)	(4)
	Iowa.....	13	5	259	1,200	217	445	826	3,603	5,467	(2)	(4)	(4)	(4)
	South.....	37	12	1,738	7,586	1,443	2,685	5,841	15,248	24,968	850	(4)	(4)	(4)
	West.....	102	17	1,865	9,373	1,275	2,352	5,392	17,293	27,836	502	(4)	(4)	(4)
	California.....	81	12	1,474	7,648	989	1,793	4,204	13,768	21,174	(2)	(4)	(4)	(4)
3425	Hand saws and saw blades, total.....	89	38	5,509	28,311	4,077	7,883	18,482	53,658	87,626	1,225	6,879	53,246	8,441
	New England.....	11	9	1,921	9,866	1,488	2,864	6,787	23,111	36,272	(2)	2,363	22,316	2,787
	Connecticut.....	5	4	572	2,786	414	799	1,647	4,665	8,460	(2)	(3)	(3)	(3)
	Middle Atlantic...	27	14	1,676	8,452	1,205	2,383	5,282	11,356	20,205	(2)	2,523	16,025	2,910
	New York.....	13	6	480	2,653	372	775	1,752	3,340	6,948	(2)	608	4,340	701
	Pennsylvania.....	9	7	1,154	5,564	807	1,555	3,417	7,706	12,834	(D)	1,862	11,418	2,209
	North Central.....	32	12	1,541	8,059	1,126	2,139	5,228	14,653	24,261	(2)	1,620	11,652	(D)
	Ohio.....	12	5	245	1,113	189	397	795	1,457	2,917	(2)	412	2,400	324
	Illinois.....	9	3	292	1,499	238	458	1,093	4,000	6,134	(2)	324	3,207	276
	South and West....	19	3	371	1,934	258	497	1,185	4,538	6,888	(2)	372	3,251	291
3429	Hardware, nec, total	1,059	454	88,105	433,304	68,078	134,166	301,509	754,943	1,347,879	25,644	88,296	639,578	77,473
	New England.....	120	58	16,722	74,649	12,520	24,119	51,116	113,863	201,493	5,120	17,757	107,970	21,794
	Massachusetts...	48	20	3,596	14,934	2,618	4,915	9,834	23,087	43,299	724	2,183	11,882	2,080
	Rhode Island.....	8	2	238	921	211	406	714	1,136	2,159	(2)	(3)	(3)	(3)
	Connecticut.....	54	31	12,225	56,269	9,253	17,887	38,552	85,898	148	4,258	14,699	90,637	19,183
	Middle Atlantic...	252	105	14,089	65,155	11,217	22,124	46,652	116,540	212,738	4,001	14,094	107,243	14,064
	New York.....	135	57	5,141	22,682	3,972	8,043	14,754	42,809	77,049	2,258	4,328	28,205	4,407
	New Jersey.....	44	13	5,271	27,467	4,292	8,162	20,869	49,540	92,581	1,039	6,392	57,858	5,251
	Pennsylvania.....	73	35	3,677	15,006	2,953	5,919	11,029	24,191	43,108	704	3,372	21,179	4,406
	East North Central	336	167	41,835	223,118	32,479	64,402	157,349	384,617	694,472	10,780	44,938	343,486	36,207
	Ohio.....	67	29	8,038	44,156	6,189	11,785	31,629	77,587	151,964	1,996	8,776	68,164	5,168
	Indiana.....	34	19	2,706	13,114	2,056	4,120	8,469	23,407	42,206	829	2,356	16,804	1,886
	Illinois.....	122	61	11,391	57,406	8,878	17,626	39,484	109,142	173,038	3,352	10,189	82,321	10,677
	Michigan.....	92	50	17,879	98,719	13,861	27,687	70,820	157,190	298,065	4,199	21,689	161,019	16,759
	Wisconsin.....	21	8	1,821	9,723	1,495	3,184	6,947	17,291	29,199	(2)	1,926	15,176	1,717
	West North Central	55	21	1,944	8,459	1,533	3,057	5,753	17,003	32,409	635	1,645	10,893	1,396
	Minnesota.....	23	7	632	2,534	503	973	1,682	4,911	10,169	(2)	348	1,985	139
	Iowa.....	7	5	419	1,730	291	612	1,144	5,576	11,532	(2)	451	3,908	318
	Missouri.....	16	5	760	3,675	629	1,238	2,536	5,390	8,826	(2)	702	4,036	884
	South Atlantic....	48	16	1,970	6,726	1,577	2,903	4,789	11,295	19,290	686	1,556	7,792	
	North Carolina..	10	6	528	1,872	421	840	1,276	3,314	5,461	(2)	400	2,010	
	Florida.....	21	4	377	1,485	318	641	1,109	2,214	4,213	(2)	86	811	
	East South Central	21	11	2,544	8,539	2,078	3,901	6,071	19,828	33,136	1,052	1,709	7,855	801
	West South Central	25	8	831	3,504	547	1,096	2,271	6,298	13,307	(2)	245	1,985	
	Arkansas.....	5	4	518	2,326	304	641	1,514	3,878	9,196	(2)	(3)	(3)	
	Texas.....	15	2	148	602	114	242	408	1,063	2,150	(2)	193	1,482	

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3429	Hardware, nec—Con.													
	Mountain.....	8	2	131	740	98	199	400	1,560	2,391	( <sup>2</sup> )	136	1,030	427
	Colorado.....	8	2	131	740	98	199	400	1,560	2,391	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pacific.....	194	66	8,039	42,414	6,029	12,365	27,108	83,939	138,643	3,125	6,213	51,320	2,784
	California.....	177	61	7,533	40,047	5,652	11,654	25,510	79,077	130,735	2,972	5,796	47,840	2,503

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3411, Metal cans: New England—Maine, 2 (250-499); Massachusetts, 4 (250-499); North Central—Ohio, 18 (2,204); Indiana, 5 (500-999); Michigan, 1 (20-99); Nebraska, 1 (250-499); South Atlantic—West Virginia, 3 (100-249); Georgia, 1 (100-249); East South Central—Kentucky, 1 (20-99); Tennessee, 5 (100-249); West South Central—Arkansas, 3 (100-249); Louisiana, 2 (1,000-2,499); Colorado, 2 (100-249); Utah, 2 (100-249); Pacific—Washington, 5 (500-999); Oregon, 4 (500-999).

SIC 3421, Cutlery: New England—New Hampshire, 3 (20-99); Massachusetts, 8 (1,000-2,499); Rhode Island, 5 (500-999); North Central—Illinois, 8 (20-99); Michigan, 7 (20-99); Wisconsin, 1 (100-249); Minnesota, 3 (1-19); Iowa, 6 (20-99); Missouri, 2 (1-19); Nebraska, 1 (1-19); South and West—Maryland, 2 (100-249); Virginia, 3 (500-999); North Carolina, 2 (1-19); Florida, 3 (1-19); Arkansas, 3 (100-249); Texas, 1 (1-19); Montana, 1 (1-19); Colorado, 1 (100-249); Washington, 1 (1-19); Oregon, 4 (20-99); California, 8 (20-99).

SIC 3423, Hand and edge tools: New England—Maine, 13 (100-249); Vermont, 7 (100-249); Rhode Island, 14 (500-999); East North Central—Indiana, 24 (500-999); Wisconsin, 20 (500-999); West North Central—Missouri, 29 (1,554); Nebraska, 4 (100-249); Kansas, 4 (100-249); South—Delaware, 1 (1-19); Maryland, 3 (20-99); Virginia, 2 (20-99); West Virginia, 5 (1,000-2,499); North Carolina, 4 (20-99); Georgia, 1 (1-19); Florida, 4 (1-19); Kentucky, 1 (20-99); Tennessee, 3 (20-99); Alabama, 2 (1-19); Mississippi, 2 (20-99); Arkansas, 2 (1-19); Texas, 7 (20-99); West—Montana, 1 (1-19); Colorado, 4 (20-99); Utah, 3 (20-99); Washington, 6 (100-249); Oregon, 7 (100-249).

SIC 3425, Hand saws and saw blades: New England—Maine, 1 (1-19); New Hampshire, 1 (20-99); Massachusetts, 4 (1,000-2,499); Middle Atlantic—New Jersey, 5 (20-99); North Central—Indiana, 2 (500-999); Michigan, 5 (100-249); Minnesota, 2 (20-99); Missouri, 2 (100-249); South and West—Maryland, 1 (1-19); North Carolina, 3 (20-99); Georgia, 2 (1-19); Kentucky, 2 (100-249); Alabama, 1 (1-19); Arkansas, 1 (1-19); Washington, 2 (1-19); Oregon, 2 (20-99); California, 5 (20-99).

SIC 3429, Hardware, nec: New England—Maine, 5 (250-499); New Hampshire, 3 (100-249); Vermont, 2 (20-99); West North Central—South Dakota, 2 (20-99); Kansas, 7 (20-99); South Atlantic—Delaware, 2 (1-19); Maryland, 3 (20-99); District of Columbia, 2 (1-19); Virginia, 3 (500-999); West Virginia, 2 (100-249); South Carolina, 1 (100-249); Georgia, 4 (1-19); East South Central—Kentucky, 5 (100-249); Tennessee, 10 (1,488); Alabama, 4 (500-999); Mississippi, 2 (250-499); West South Central—Louisiana, 2 (100-249); Oklahoma, 3 (20-99); Pacific—Washington, 9 (250-499); Oregon, 8 (100-249).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

# MANUFACTURES-INDUSTRY STATISTICS

## Table 3.-Detailed Statistics for the United States: 1958

Item	Metal cans (SIC 3411)	Cutlery (SIC 3421)	Hand and edge tools (SIC 3423)	Hand saws and saw blades (SIC 3425)	Hardware, nec (SIC 3429)
Primary product specialization ratio <sup>1</sup> .....	98	93	91	82	89
Coverage ratio <sup>2</sup> .....	99	98	85	90	93
Number of establishments, total.....	222	183	763	89	1,059
With 1-19 employees.....	33	111	513	51	605
With 20-99 employees.....	76	41	175	25	289
With 100 employees or more.....	113	31	75	13	165
Proprietors and working partners.....Number..	18	90	391	34	447
All employees:					
Number (average for the year).....	54,238	11,831	30,273	5,509	88,105
Payroll.....\$1,000..	303,885	52,745	142,551	28,311	433,304
Production workers:					
Number (average for the year).....	46,921	9,107	23,626	4,077	68,078
March.....	44,592	8,988	23,395	4,141	67,967
May.....	46,150	8,765	22,996	4,018	63,690
August.....	50,810	8,998	23,396	3,975	65,814
November.....	46,123	9,666	24,934	4,212	75,269
Man-hours.....1,000..	94,295	17,986	45,720	7,883	134,166
January-March.....do...	22,033	4,397	11,203	2,015	34,129
April-June.....do...	23,571	4,418	11,131	1,935	31,547
July-September.....do...	25,999	4,241	10,438	1,777	31,849
October-December.....do...	22,683	4,849	12,633	2,138	36,314
Wages.....\$1,000..	249,514	34,875	99,674	18,482	301,509
Cost of materials, etc., total.....do...	1,169,699	51,146	168,173	32,799	590,744
Materials, parts, containers, and supplies consumed.....do...	1,131,055	44,352	134,803	28,132	530,894
Cost of resales.....do...	24,690	3,757	21,531	2,684	26,496
Fuels consumed.....do...	6,597	868	2,845	614	6,392
Electricity purchased.....do...	6,401	1,055	2,736	800	8,112
Contract work.....do...	956	1,114	6,359	569	18,842
Value of shipments (including resales), total.....do...	1,824,106	179,271	440,150	87,626	1,347,879
Value of resales.....do...	27,561	4,659	30,128	3,440	36,770
Value added by manufacture, adjusted.....do...	668,606	126,310	267,316	53,658	754,943
Manufacturers' inventories:					
Beginning of year, total.....do...	297,267	40,291	107,878	23,212	246,320
Finished products.....do...	85,987	14,723	42,118	8,952	61,982
Work-in-process.....do...	79,770	9,866	34,952	5,706	96,709
Materials, supplies, fuel, etc.....do...	131,510	15,702	30,808	8,554	87,629
End of year, total.....do...	335,636	37,969	101,204	20,644	229,517
Finished products.....do...	89,757	12,901	37,192	7,996	68,812
Work-in-process.....do...	90,199	9,873	35,217	5,493	87,687
Materials, supplies, fuel, etc.....do...	155,680	15,195	28,795	7,155	73,018
Expenditures for plant and equipment, total.....do...	55,126	2,506	9,713	1,392	29,317
New, total.....do...	52,881	2,370	8,588	1,225	25,644
New structures and additions to plant.....do...	17,464	( <sup>3</sup> )	2,048	( <sup>3</sup> )	3,471
New machinery and equipment.....do...	35,417	2,153	6,540	1,076	22,173
Used plant and equipment.....do...	2,245	( <sup>3</sup> )	1,125	( <sup>3</sup> )	3,673

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.



## METAL CANS, CUTLERY, HAND TOOLS, AND GENERAL HARDWARE

34A-11

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item <sup>1</sup>	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3411	Metal cans:											
	Number of establishments.....	222	12	12	9	40	36	47	33	23	10	...
	All employees:											
	Number.....	54,238	18	89	136	1,384	2,553	7,756	27,940	(D)	14,362	...
	Payroll.....\$1,000..	303,885	61	448	535	6,173	12,809	41,809	157,998	(D)	84,052	...
	Value added, adjusted..do....	668,606	145	1,626	1,640	14,461	35,282	117,966	357,395	(D)	140,091	...
	Value of shipments.....do....	1,824,106	348	4,407	5,150	58,548	113,605	347,098	938,326	(D)	356,624	...
	Capital expend., new...do....	52,881	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,420	1,621	20,918	20,518	(D)	8,264	...
3421	Cutlery:											
	Number of establishments.....	183	57	31	23	24	17	21	5	4	1	...
	All employees:											
	Number.....	11,831	102	215	331	763	1,223	3,058	1,587	4,552	(D)	...
	Payroll.....\$1,000..	52,745	331	946	1,344	3,123	4,635	12,684	6,278	23,404	(D)	...
	Value added, adjusted..do....	126,310	1,032	1,594	2,519	5,071	7,454	20,286	9,991	78,363	(D)	...
	Value of shipments.....do....	179,271	1,722	3,150	4,386	7,896	10,870	32,952	17,929	100,366	(D)	...
	Capital expend., new...do....	2,370	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,426	(D)	...
3423	Hand and edge tools:											
	Number of establishments.....	763	286	109	118	111	64	49	18	7	1	...
	All employees:											
	Number.....	30,273	575	717	1,633	3,499	4,269	7,991	6,249	5,340	(D)	...
	Payroll.....\$1,000..	142,551	2,171	2,840	6,936	14,913	20,285	37,873	31,045	26,488	(D)	...
	Value added, adjusted..do....	267,316	4,941	4,765	12,682	26,442	37,189	71,448	62,076	47,773	(D)	...
	Value of shipments.....do....	440,150	8,533	7,935	20,967	42,882	63,159	116,634	104,635	75,405	(D)	...
	Capital expend., new...do....	8,588	( <sup>1</sup> )	( <sup>1</sup> )	785	908	808	2,069	1,897	1,549	(D)	...
3425	Hand saws and saw blades:											
	Number of establishments.....	89	16	18	17	17	8	9	1	3	...	...
	All employees:											
	Number.....	5,509	32	120	233	512	553	1,647	(D)	2,412	...	...
	Payroll.....\$1,000..	28,311	127	534	1,061	2,540	2,413	9,166	(D)	12,470	...	...
	Value added, adjusted..do....	53,658	276	824	2,474	3,802	4,530	16,990	(D)	24,762	...	...
	Value of shipments.....do....	87,626	484	1,593	3,552	6,888	7,486	28,568	(D)	39,055	...	...
	Capital expend., new...do....	1,225	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	( <sup>1</sup> )	...	...
3429	Hardware, nec:											
	Number of establishments.....	1,059	311	147	147	185	104	93	43	16	7	6
	All employees:											
	Number.....	88,105	581	1,012	2,005	5,850	7,536	14,398	14,619	9,653	32,451	(D)
	Payroll.....\$1,000..	433,304	2,024	4,286	8,200	25,955	32,635	69,957	68,753	49,183	172,311	(D)
	Value added, adjusted..do....	754,943	5,095	8,502	15,398	49,110	67,259	128,682	121,754	84,867	274,276	(D)
	Value of shipments.....do....	1,347,879	10,175	17,091	30,713	94,721	114,394	242,442	213,575	135,180	489,588	(D)
	Capital expend., new...do....	25,644	604	529	937	1,971	3,608	4,101	3,167	2,079	8,648	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.

**Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954**

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3411	Metal cans.....1958..	1,824,106	1,747,407	34,810	41,889	98	1,762,346	1,747,407	14,939	99
	.....1954..	1,381,359	1,329,074	30,363	21,922	98	<sup>3</sup> 1,340,605	1,329,074	11,531	99
3421	Cutlery.....1958..	179,271	158,890	12,217	8,164	93	162,177	158,890	3,287	98
	.....1954..	173,565	147,828	20,574	5,163	88	153,315	147,828	5,487	96
3423	Hand and edge tools.....1958..	440,150	367,822	35,562	36,766	91	434,202	367,822	66,380	85
3425	Hand saws and saw blades.....1958..	87,626	67,789	14,926	4,911	82	75,629	67,789	7,840	90
	.....1954..	88,426	58,119	23,362	6,945	71	64,540	58,119	6,421	90
3429	Hardware, nec.....1958..	1,347,879	1,144,281	142,581	61,017	89	1,224,108	1,144,281	79,827	93
	.....1954..	1,126,335	947,773	149,655	28,907	86	1,053,650	947,773	105,877	90

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Differs from the value figure in table 6A because of the inclusion in this table of \$8,638 thousand of metal fluid milk shipping and delivery containers.

**Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958**

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Metal cans industry	Metal cans (SIC 3411)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,824,106	xxx	xxx
34110	Metal cans.....	1,747,407	<sup>1</sup> 14,939	1,762,346
	Secondary products.....	34,810	xxx	xxx
3461-	Metal stampings.....	4,833	xxx	xxx
3491-	Metal barrels, drums and pails.....	11,100	xxx	xxx
	Other secondary products.....	<sup>2</sup> 18,877	xxx	xxx
	Miscellaneous receipts.....	41,889	xxx	xxx
	Contract and commission work.....	1,038	xxx	xxx
	Sales of products bought and resold.....	27,561	xxx	xxx
	Miscellaneous repair work.....	1,837	xxx	xxx
	Scrap and salable refuse.....	10,668	xxx	xxx
	Other miscellaneous receipts.....	785	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Cutlery industry	Cutlery (SIC 3421)	Other industries	All industries
	Total shipments and receipts of the industry.....	179,271	xxx	xxx
	Primary products.....	158,890	3,287	162,177
34211	Cutlery, scissors, shears, trimmers and snips.....	74,039	3,287	77,326
34212	Razor blades and razors, except electric.....	80,713	...	80,713
34210	Cutlery, nsk.....	4,138	...	4,138
	Secondary products.....	12,217	xxx	xxx
3423-	Hand and edge tools.....	2,029	xxx	xxx
	Other secondary products.....	10,188	xxx	xxx
	Miscellaneous receipts.....	8,164	xxx	xxx
	Contract and commission work.....	646	xxx	xxx
	Sales of products bought and resold.....	4,659	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	1,120	xxx	xxx
	Other miscellaneous receipts.....	1,739	xxx	xxx
Prod. class code	Hand and edge tools industry	Hand and edge tools (SIC 3423)	Other industries	All industries
	Total shipments and receipts of the industry.....	440,150	xxx	xxx
	Primary products.....	367,822	66,380	434,202
34231	Mechanics' hand service tools.....	157,300	431,160	188,460
34232	Edge tools.....	71,917	518,697	90,614
34233	Files, rasps and file accessories and other hand tools.....	126,339	15,678	142,017
34230	Edge and hand tools, nsk.....	12,266	845	13,111
	Secondary products.....	35,562	xxx	xxx
34250	Hand saws, saw blades, and saw accessories.....	3,611	xxx	xxx
3461-	Metal stampings.....	65,158	xxx	xxx
	Other secondary products.....	26,793	xxx	xxx
	Miscellaneous receipts.....	36,766	xxx	xxx
	Contract and commission work.....	2,770	xxx	xxx
	Sales of products bought and resold.....	30,128	xxx	xxx
	Salable refuse and miscellaneous repair work.....	1,089	xxx	xxx
	Sale of scrap.....	1,204	xxx	xxx
	Other miscellaneous receipts.....	1,575	xxx	xxx
Prod. class code	Hand saws and saw blades industry	Hand saws and saw blades (SIC 3425)	Other industries	All industries
	Total shipments and receipts of the industry.....	87,626	xxx	xxx
34250	Hand saws, saw blades and saw accessories.....	67,789	77,840	75,629
	Secondary products.....	14,926	xxx	xxx
3423-	Hand and edge tools.....	10,880	xxx	xxx
	Other secondary products.....	4,046	xxx	xxx
	Miscellaneous receipts.....	4,911	xxx	xxx
	Contract and commission work.....	285	xxx	xxx
	Sales of products bought and resold.....	3,440	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	1,186	xxx	xxx

See footnotes at end of table.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Hardware, nec, industry	Hardware, nec (SIC 3429)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,347,879	xxx	xxx
	Primary products.....	1,144,281	79,827	1,224,108
34291	Transportation equipment hardware.....	456,509	<sup>8</sup> 15,648	472,157
34292	Furniture hardware.....	74,161	3,248	77,409
34293	Vacuum and insulated bottles, jugs and chests.....	32,639	<sup>9</sup> 8,508	41,147
34294	Builders' hardware.....	367,051	<sup>10</sup> 20,032	387,083
34295	Other hardware.....	183,883	<sup>11</sup> 31,337	215,220
34290	Hardware, nsk.....	30,038	1,054	31,092
	Secondary products.....	142,581	xxx	xxx
3423-	Hand and edge tools.....	<sup>12</sup> 5,564	xxx	xxx
3461-	Metal stampings.....	<sup>13</sup> 7,809	xxx	xxx
34990	Fabricated metal products, nec.....	8,704	xxx	xxx
3535-	Conveyors.....	3,299	xxx	xxx
35370	Industrial trucks and tractors.....	2,984	xxx	xxx
	Other secondary products.....	<sup>14</sup> 114,221	xxx	xxx
	Miscellaneous receipts.....	61,017	xxx	xxx
	Contract and commission work.....	4,873	xxx	xxx
	Sales of products bought and resold.....	36,770	xxx	xxx
	Miscellaneous repair work.....	4,827	xxx	xxx
	Scrap and salable refuse.....	8,481	xxx	xxx
	Other miscellaneous receipts.....	6,066	xxx	xxx

<sup>1</sup>Includes \$3,547 thousand shipped by Industry 3461, Metal Stampings; as well as shipments by the following industries which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 2851, Paints and Varnishes; and Industry 3352, Aluminum Rolling and Drawing.

<sup>2</sup>Includes product class 26552, Fiber cans, tubes, and other fiber products, the shipments of which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes product class 28441, "Shaving preparations", the shipments of which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes Industry 3429, Hardware, NEC, the shipment of which totaled more than \$2 million but are withheld to avoid disclosing individual company figures.

<sup>5</sup>Includes \$9,657 thousand shipped by Industry 3425, Hand Saws and Sawblades.

<sup>6</sup>Includes shipments of product class 34618, Other stamped and pressed metal end products totaling \$4,184 thousand.

<sup>7</sup>Includes \$3,611 thousand shipped by Industry 3423, Hand and Edge Tools; as well as shipments by Industry 3545, Machine Tool Accessories, which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>8</sup>Includes \$4,268 thousand shipped by Industry 3717, Motor Vehicles and Parts; as well as shipments by Industry 3531, Construction Machinery, which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>9</sup>Includes shipments by Industry 3634, Electric Housewares and Fans, which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>10</sup>Includes \$3,176 thousand shipped by Industry 2431, Millwork Plants; and \$2,071 thousand shipped by Industry 3461, Metal Stampings; as well as shipments by Industry 3498, Fabricated Pipe and Fittings, of which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>11</sup>Includes \$5,107 thousand shipped by Industry 3461, Metal Stampings; and \$2,008 thousand shipped by Industry 3537, Industrial Trucks and Tractors; as well as shipments by Industries 3634, Electric Housewares and Fans and 3964, Needles, Pins and Fasteners, which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>12</sup>Includes product class 34231, Mechanics' hand service tools, which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>13</sup>Includes product class 34612, Job stampings, except automotive, which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>14</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Product class 34813, Other wire springs; and product class 35441, Special dies and tools, die sets, jigs and fixtures.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers				
		1958			1954	
		Quantity (1,000 short tons) <sup>1</sup>	Quantity (1,000 base boxes) <sup>2</sup>	Value (\$1,000)	Quantity (1,000 base boxes) <sup>2</sup>	Value (\$1,000)
3411---	Metal cans, total.....	xxx	xxx	1,762,346	xxx	1,331,967
34110--	Metal cans: <sup>3</sup>					
	Reported in Census of Manufacture.....	xxx	103,579	1,754,984	90,858	1,320,247
	Reported on monthly Form M34D.....	4,762	103,849	xxx	490,713	xxx
					(1,000 short tons)	
	Detailed data by type of can:					
3411011	Fruit and vegetable (including juice).....	1,560	33,379	(NA)	1,342	(NA)
3411013	Evaporated milk and condensed milk.....	207	5,175	(NA)	229	(NA)
3411019	Other dairy products.....	36	728	(NA)	42	(NA)
3411031	Meat (including poultry).....	136	2,950	(NA)	140	(NA)
3411041	Fish and seafood.....	124	2,843	(NA)	109	(NA)
3411045	Coffee.....	209	4,452	(NA)	179	(NA)
3411051	Lard and shortening.....	110	2,383	(NA)	120	(NA)
3411061	Soft drink cans for carbonated beverages.....					
3411065	Soft drinks cans for non-carbonated beverages (including cans for still drinks sold as soft drinks).....	37	810	(NA)	44	(NA)
3411067	Beer.....	820	16,902	(NA)	647	(NA)
3411071	Pet food.....	173	4,155	(NA)	131	(NA)
3411075	Oil (open top 1-quart and 5-quart).....	272	6,337	(NA)	273	(NA)
3411081	All other food (including soup and baby food cans).....	494	11,363	(NA)	400	(NA)
3411085	All other non-food.....	584	12,372	(NA)	487	(NA)
3411091	Tinware end products (including ice cream cans but excluding cooking and kitchen utensils).....	xxx	xxx	3,914	xxx	11,720
3411000	Metal cans, nsk.....	xxx	xxx	3,448	xxx	...
		Unit of measure	Total shipments including interplant transfers (\$1,000)			
			1958		1954	
			Quantity	Value	Quantity	Value
3421---	Cutlery, total.....		xxx	162,177	xxx	153,315
34211--	Cutlery, scissors, shears, trimmers, and snips.....		xxx	77,326	xxx	85,485
3421111	Table cutlery <sup>5</sup> .....		xxx	5,353		
3421121	Kitchen cutlery.....		xxx	16,579	xxx	31,475
3421131	Butchers and meat packing cutlery.....		xxx	2,919	xxx	1,927
3421141	Pocket knives and other folding blade knives:					
	Quantity reported.....	1,000 units.	15,872	8,978	22,768	11,731
	Quantity not reported.....		xxx	3,458	...	...
3421153	Scissors and shears (including household types, barber shears, pink-ing and tailoring shears, etc., but excluding manicure, pedicure, and surgical).....		xxx	13,641	xxx	
3421155	All other scissors and shears (including hedge and grass shears and pruners except electric, aviation and tinner snips, BX and wire filament cutters, etc.).....		xxx	7,712	xxx	23,425
3421161	Manicure and pedicure scissors and implements.....		xxx	6,106	xxx	5,762
3421198	Other cutlery.....		xxx	8,686	xxx	7,665
3421100	Cutlery, scissors, shears, trimmers and snips, nsk.....		xxx	3,894	xxx	3,500
34212--	Razors, except electric, and razor blades.....		xxx	80,713	xxx	67,830
3421211	Safety razors.....					
3421251	Razor blades.....		xxx	80,713	xxx	6,310
						61,520
3421000	Cutlery, nsk.....		xxx	4,138	xxx	...
3423---	Hand and edge tools, except machine tools, and hand saws, total.....		xxx	434,202	xxx	365,907
34231--	Mechanics' hand service tools.....		xxx	188,460	xxx	168,800
3423111	Pliers.....	1,000 units.	14,683	17,818	15,671	14,829
3423121	Ball peen hammers.....	do.	1,415	2,008	1,782	1,607
3423133	Wrenches:					
	Socket.....	do.	37,808	22,146		
3423135	Flat (open-end, box-end and combination open-end box).....	do.	26,175	16,931	67,494	47,024
3423137	Adjustable.....	do.	8,464	17,611		
3423139	All other.....	do.	11,794	9,962		
3423141	Screw drivers.....	do.	41,856	15,947	38,384	14,881
3423198	Other mechanics' hand service tools.....		xxx	73,261	xxx	90,459
3423100	Mechanics' hand service tools, nsk.....		xxx	12,776	xxx	...

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers (\$1,000)			
			1958		1954	
			Quantity	Value	Quantity	Value
3423---	Hand and edge tools, except machine tools, etc.—Continued					
34232--	Edge tools.....		xxx	90,614	xxx	73,686
3423211	Agricultural edged hand tools, except scissors and shears (scythes, sickles, grass hooks, machetes, hay knives, and similar tools).....		xxx	2,647	xxx	5,419
3423231	Axes, adzes, and hatchets.....		xxx	7,737	xxx	6,663
3423251	Cutting dies, for use in cutting cloth, paper, leathers, etc. (excluding dies for cutting metal).....		xxx	14,454	xxx	18,774
3423255	Machine knives, except metal cutting.....		xxx	10,362	xxx	(6)
3423261	Can openers.....		xxx	11,833	xxx	9,182
3423271	Auger bits.....	1,000 units.	4,289	4,725	6,939	4,071
3423281	Planes.....	991	2,621	1,258	1,258	3,513
3423283	Chisels.....	do.	(NA)	4,634	4,625	4,140
3423298	Other edge tools.....		xxx	24,717	xxx	617,370
3423200	Edge tools, nsk.....		xxx	6,884	xxx	4,554
34233--	Files, rasps, and file accessories and other hand tools.....		xxx	142,017	xxx	120,060
3423311	Shovels, spades, scoops, telegraph spoons, and scrapers.....		xxx	18,839	xxx	15,092
3423321	Light forged hammers (excluding ball peen hammers).....		xxx	7,778	xxx	6,466
3423331	Heavy forged tools (sledge, picks, pick mattocks, and mauls).....		xxx	3,464	xxx	4,612
3423341	Steel goods (forks, hose, rakes, weeders, etc.).....		xxx	19,433	xxx	15,767
3423361	Metalworking files and rasps (including precision files).....	1,000 units.	65,411	26,722	91,043	26,604
3423371	Woodworking files and rasps.....	do.	2,791	1,262	1,760	851
3423381	Soldering irons (electric).....	do.	2,732	9,036	(NA)	3,369
3423398	Other hand tools.....		xxx	48,092	xxx	47,299
3423300	Files, rasps, and file accessories and other hand tools, nsk.....		xxx	7,391	xxx	...
3423000	Hand and edge tools, except machine tools and hand saws, nec.....		xxx	13,111	xxx	3,361
3425---	Handsaws and saw blades, total.....		xxx	75,629	xxx	64,540
	Power saw blades:					
	Woodworking:					
	Circular:					
3425011	Solid tooth <sup>7</sup> .....	1,000 units.	(NA)	8,639	3,080	7,768
3425013	Inserted tooth.....	do.	(NA)	6,059	27	5,113
	Band:					
3425015	Under 2 inches.....	1,000 ft....	13,430	2,392	6,778	880
3425017	2 inches and over.....	do.	565	3,098	575	3,329
3425019	All other woodworking power saw blades (scroll, jig, etc.).....	do.	(NA)	2,947	(NA)	2,265
	Metal:					
3425031	Circular.....	1,000 units.	(NA)	3,656	(NA)	3,664
3425035	Hack (power only).....	do.	2,758	4,862	3,756	4,210
3425036	Band (flexible back and spring temper metal cutting).....	1,000 ft....	112,742	15,969	122,966	12,628
	Hand operated saws:					
3425041	Heavy handsaws (including cross cut and buck).....	1,000 units.	218	837	776	2,175
3425043	Hacksaw blades (hand only).....	do.	58,160	11,637	66,816	9,629
3425045	Carpenters crosscuts and rip saws.....	do.	1,518	3,916	2,279	4,984
3425049	Other handsaws (miter, coping, pruning, compass, etc.; including handsaw frames and handsaw blades sold together or handsaw blades sold separately).....	do.	(NA)	5,018	(NA)	5,943
3425000	Handsaws, saw blades and accessories, nsk.....		xxx	6,599	xxx	1,952
Value of shipments including interplant transfers (\$1,000)						
			1958		1954	
3429---	Hardware, nec, total.....		1,224,108			1,053,650
34291--	Transportation equipment hardware.....		472,157			441,014
3429111	Marine hardware (including shackles, rope sockets, tackle blocks, wire rope, clips, clamps, and joiners' hardware).....		33,104			22,828
3429131	Aircraft hardware.....		33,274			19,436
	Motor vehicle hardware (including lock units, door and window handles, window regulators hinges, license plate brackets, instrument panel knobs, etc.):					
3429151	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....		<sup>8</sup> 359,478			<sup>8</sup> 377,500
3429155	Shipments to all other customers.....		<sup>8</sup> 11,088			<sup>8</sup> 6,004
3429198	Other transportation equipment hardware (including railroad car hardware).....		27,980			15,246
3429100	Transportation equipment hardware, nsk.....		7,233			...

See footnotes at end of table.



## METAL CANS, CUTLERY, HAND TOOLS, AND GENERAL HARDWARE

34A-17

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
34292--	Hardware, nec—Continued		
	Furniture hardware.....	77,409	60,189
3429211	Furniture hardware, excluding casters (including hardware for office and household furniture)..	51,434	35,799
3429251	Furniture casters and other floor protective devices (including slides, glides, furniture rests, and desk leg cups).....	21,164	24,390
3429200	Furniture hardware, nsk.....	4,811	...
34293--	Vacuum bottles and jugs .....	41,147	27,916
3429315	Vacuum (air-evacuated) bottles, pitchers, servers, etc.....	22,928	27,916
3429317	Insulated (portable and other than air-evacuated) picnic jugs, picnic chests, coolers, etc.....	18,219	
34294--	Builders' hardware.....	387,083	323,518
3429411	Padlocks.....	19,771	15,904
3429421	Door locks, locksets, and lock trim (including night latches, deadlocks, and panic devices)....	97,799	83,175
3429431	Miscellaneous sash, screen, and shelf hardware (window hardware, transom hardware, door pulls and bolts, screendoor hardware, etc.).....	52,959	52,856
3429441	Door closures and checking devices (including floor types).....	30,239	28,896
3429451	Hinges and butts, excluding cabinet hinges (including spring hinges).....	38,583	35,049
3429461	Cabinet hardware (including cabinet hinges and cabinet locks).....	34,561	29,507
3429471	Hangers, tracks and related items (including overhead door hardware).....	52,864	51,262
3429498	Other builders' hardware.....	47,572	26,869
3429400	Builders hardware, nsk.....	12,735	...
34295--	Other hardware.....	215,220	191,281
3429512	Casket and casket shell hardware.....	10,845	10,099
3429522	Casters and wheels, for dollies and industrial hard trucks.....	33,181	28,070
3429532	Trunk and luggage hardware (including locks).....	11,181	10,717
3429552	Fireplace fixtures and equipment (including dampers and irons, and fire screens).....	12,059	13,333
3429562	Hose fittings and couplings.....	54,396	40,970
3429565	Refrigerator and stove hardware.....	27,298	27,307
3429598	Other hardware (including saddlery and harness hardware).....	53,572	60,785
3429500	Other hardware, nsk.....	12,688	...
3429000	Hardware, nec, nsk.....	31,092	9,732

NA Not available. <sup>r</sup>Revised.<sup>1</sup>See text for method of converting base boxes to short tons.<sup>2</sup>Reported on monthly form M34D, "Metal Cans".<sup>3</sup>Metal cans are defined as single-walled containers constructed wholly of tin plate, terne plate, black plate, or waste plate which are designed for the packing of products. This term excludes steel pails, defined as single-walled shipping containers having capacities of 1-12 gallons inclusive, that are cylindrically constructed of steel sheet of 29 gauge and heavier.<sup>4</sup>Represents 4,143 thousand short tons.<sup>5</sup>Consists of knives, forks, spoons, and carving sets with handles of material other than metal. Knives, forks, spoons, and carving sets made wholly of metal are included in Industry 3914, Silverware and Plated Ware.<sup>6</sup>Machine knives except metal cutting were included with other edge tools in 1954.<sup>7</sup>Includes all types and sizes of solid-tooth circular saw blades for industrial and home workshop type circular saws as well as saw blades for portable power saws and for sawing attachments for portable hand tools.<sup>8</sup>Includes only the value of motor vehicle hardware reported as such. It is likely that an indeterminate amount of motor vehicle hardware was reported as motor vehicle parts and classified accordingly in the Motor Vehicle and Parts Industry.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Cutlery, scissors, shears, trimmers, and snips (34211):</u> United States, total:			<u>Edge tools (34232):</u> United States, total:			<u>Files, rasps, and file accessories and other hand tools (34233)--Continued</u>		1958 <sup>1</sup>
1958.....	77,326		1958.....	90,614		South.....	14,222	
1957.....	93,000		1954.....	73,686		Kentucky.....	1,010	
1956.....	94,674		1953.....	67,234		West.....	3,955	
1955.....	96,239		1952.....	65,531		California.....	3,607	
1954.....	85,485		1951.....	73,605				
1953.....	114,139		1950.....	63,321				
1952.....	104,047		1947.....	63,749				
1951.....	121,841							
1947.....	81,104							
	1958 <sup>1</sup>	1954	New England.....	33,088	24,164	<u>Transportation equipment hardware (34291):</u> United States, total:		Value of shipments
New England.....	23,325	23,366	Massachusetts.....	21,406	13,030	1958.....	472,157	
Massachusetts.....	6,186	( <sup>2</sup> )	Connecticut.....	8,887	9,041	1957.....	583,451	
Connecticut.....	8,690	9,382				1956.....	526,017	
			Middle Atlantic.....	15,271	13,642	1955.....	632,461	
Middle Atlantic.....	41,345	46,871	New York.....	7,594	6,535	1954.....	441,014	
New York.....	21,901	27,306	New Jersey.....	2,325	( <sup>3</sup> )	1953.....	477,852	
New Jersey.....	14,958	15,922	Pennsylvania.....	5,352	6,268	1952.....	341,091	
Pennsylvania.....	4,486	3,642				1951.....	364,019	
			East North Central.....	19,158	17,089	1950.....	384,912	
East North Central.....	7,447	8,043	Ohio.....	8,302	4,210	1947.....	203,281	
Ohio.....	4,565	5,202	Illinois.....	8,166	9,341			
			Michigan.....	1,574	1,253		1958 <sup>1</sup>	1954
West North Central.....	1,008	( <sup>3</sup> )	West North Central.....	13,990	12,489	New England.....	27,432	28,622
South.....	2,472	5,084	Missouri.....	13,417	12,097	Connecticut.....	13,815	13,577
West.....	1,729	1,491	South.....	5,914	3,567	Middle Atlantic.....	84,818	91,516
			West.....	3,195	2,735	New York.....	9,032	( <sup>2</sup> )
<u>Mechanics' hand service tools (34231):</u> United States, total:			California.....	1,758	( <sup>2</sup> )	East North Central.....	327,321	304,948
1958.....	188,460					Ohio.....	85,175	72,702
1954.....	168,800					Indiana.....	12,845	( <sup>2</sup> )
						Illinois.....	22,460	12,079
	1958 <sup>1</sup>		<u>Files, rasps, and file accessories and other hand tools (34233):</u> United States, total:			Michigan.....	199,292	203,796
New England.....	31,386		1958.....	142,017		Wisconsin.....	7,548	( <sup>2</sup> )
Massachusetts.....	17,292		1954.....	120,060		West North Central.....	3,426	2,400
Connecticut.....	13,482					South.....	6,106	3,913
						West.....	23,054	9,615
Middle Atlantic.....	46,981					California.....	22,394	( <sup>2</sup> )
New York.....	26,050							
New Jersey.....	10,109					<u>Furniture hardware (34292):</u> United States, total:		Value of shipments
Pennsylvania.....	10,822					1958.....	77,409	
						1957.....	69,625	
East North Central.....	76,765					1956.....	74,531	
Ohio.....	27,845					1955.....	72,969	
Indiana.....	3,610					1954.....	60,189	
Illinois.....	29,102					1953.....	60,302	
Michigan.....	4,458					1952.....	53,890	
Wisconsin.....	11,750					1951.....	62,376	
						1950.....	52,271	
West North Central.....	16,154					1947.....	39,134	
Minnesota.....	8,654							
Missouri.....	1,345						1958 <sup>1</sup>	1954
South.....	2,803					New England.....	20,973	12,803
West.....	14,371					Connecticut.....	14,786	11,578
California.....	12,494					Middle Atlantic.....	10,675	5,989
						New York.....	8,185	4,819
						Pennsylvania.....	2,192	( <sup>2</sup> )

See footnotes at end of table.



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Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Furniture hardware (34292)--</u> Continued	1958 <sup>1</sup>	1954	<u>Builders' hardware (34294)--</u> Continued	1958 <sup>1</sup>	1954	<u>Other hardware (34295)--</u> Continued	1958 <sup>1</sup>	1954
East North Central.....	32,068	36,574	East North Central.....	142,871	122,833	Middle Atlantic.....	43,174	42,201
Illinois.....	13,411	( <sup>2</sup> )	Ohio.....	11,120	11,213	New York.....	24,955	19,514
Michigan.....	7,170	( <sup>2</sup> )	Indiana.....	6,296	6,342	New Jersey.....	6,712	11,765
West North Central.....	1,549	( <sup>3</sup> )	Illinois.....	81,491	70,767	Pennsylvania.....	11,507	10,922
Missouri.....	1,549	( <sup>3</sup> )	Michigan.....	31,602	24,899			
South.....	7,203	2,812	Wisconsin.....	12,362	9,611			
West.....	4,941	2,011	West North Central.....	14,523	13,157	East North Central.....	88,081	79,802
			Minnesota.....	5,637	4,086			
<u>Builders' hardware (34294):</u>	Value of shipments		South Atlantic.....	5,692	( <sup>2</sup> )	Ohio.....	19,202	14,600
United States, total:			Florida.....	1,808	( <sup>2</sup> )	Indiana.....	11,447	6,994
1958.....		387,083	East South Central.....	17,676	( <sup>2</sup> )	Illinois.....	25,902	24,970
1957.....		390,189	West South Central.....	2,545	1,260	Michigan.....	23,519	26,084
1956.....		391,938	Mountain.....	1,569	( <sup>2</sup> )	Wisconsin.....	8,011	7,153
1955.....		382,402	Pacific.....	67,398	( <sup>2</sup> )			
1954.....		323,518				West North Central.....	5,033	4,224
1953.....		270,923						
1952.....		250,391				Iowa.....	3,289	2,968
1951.....		279,269	<u>Other hardware (34295):</u>	Value of shipments		South Atlantic.....	4,931	(NA)
1950.....		243,324	United States, total:			Virginia.....	1,221	( <sup>3</sup> )
1947.....		184,435	1958.....		215,220	East South Central.....	2,334	3,167
	1958 <sup>1</sup>	1954	1957.....		230,881	Tennessee.....	1,935	( <sup>2</sup> )
New England.....	86,915	79,578	1956.....		231,006	West South Central.....	4,788	1,436
Connecticut.....	69,749	67,200	1955.....		218,540	West.....	28,084	19,328
Middle Atlantic.....	47,894	42,715	1954.....		191,281	Oregon.....	1,271	( <sup>3</sup> )
			1953.....		160,861	California.....	25,841	16,343
New York.....	16,956	17,740	1952.....		147,040			
New Jersey.....	6,527	4,498	1951.....		165,877			
Pennsylvania.....	24,411	20,476	1950.....		154,427			
			1947.....		109,222			
				1958 <sup>1</sup>	1954			
			New England.....	38,795	37,798			
			Massachusetts.....	7,102	( <sup>2</sup> )			
			Connecticut.....	30,488	30,313			

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>2</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 34211, Rhode Island, Wisconsin, and Maryland; 34231, Iowa, Nebraska, Kansas, West Virginia, and Oregon; 34232, Virginia, West Virginia, and Washington; 34233, Rhode Island, Connecticut, West Virginia, and Mississippi; 34291, Maine, Massachusetts, New Jersey, Pennsylvania, Iowa, and West Virginia; 34292, Massachusetts, Indiana, Virginia, North Carolina, Florida, and California; 34294, New Hampshire, Massachusetts, Rhode Island, Iowa, Missouri, Virginia, South Carolina, Tennessee, Alabama, Mississippi, Colorado, Washington, and California; 34295, Rhode Island, West Virginia, and Arkansas.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 3411—METAL CANS						
	Materials, parts, containers and supplies, total.....		xxx	1,131,055	xxx	873,469
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	82	35	1,691	231
331212	Sheet and strip.....	....do.....	16,939	4,049	29,728	4,096
331218	Tin plate, terneplate and black plate.....	....do.....	4,700,337	889,531	4,066,369	669,884
331217	Wire and wire products.....	....do.....	8,525	1,865	8,795	1,417
331219	All other carbon steel mill shapes and forms.....	....do.....	...	...	1,310	347
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	....do.....	(NA)	110	476	573
331225	All other alloy steel mill shapes and forms.....	....do.....				
331231	Stainless steel mill shapes and forms.....	....do.....				
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	1,000 pounds...	2,020	1,293	1,604	995
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	....do.....				
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	227,510	xxx	195,926
973000	Materials, parts, containers and supplies, nsk.....		xxx	6,662	xxx	xxx
INDUSTRY 3421—CUTLERY						
	Materials, parts, containers and supplies, total.....		xxx	44,352	xxx	44,635
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	2,569	496	5,437	841
331212	Sheet and strip.....	....do.....	11,871	5,346	11,561	4,948
331213						
331215	All other carbon steel mill shapes and forms.....	....do.....	1,626	434	1,307	371
331217						
331219						
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	....do.....	180	103	2,153	1,480
331225	All other alloy steel mill shapes and forms.....	....do.....	1,951	2,019		
331231	Stainless steel mill shapes and forms.....	....do.....	4,189	3,853		
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 pounds...	...	...	3,730	1,813
363111	Insulated wire and cable.....	1,000 pounds copper content	...	...		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	1,000 pounds...	3,279	1,466		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	....do.....	1,477	717	727	349
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	....do.....	57	51		
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	Short tons....	627	353	397	204
332311	Steel.....	....do.....	420	665	33	28
336121	Copper and copper-base alloy.....	1,000 pounds...	109	67	(NA)	(NA)
336111	Aluminum and aluminum-base alloy.....	....do.....	137	146	162	177
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	23,804	xxx	29,197
973000	Materials, parts, containers and supplies, nsk.....		xxx	24,832	xxx	xxx
INDUSTRY 3423—HAND AND EDGE TOOLS						
	Materials, parts, containers and supplies, total.....		xxx	134,803		
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	69,319	13,055	(NA)	(NA)
331212	Sheet and strip.....	....do.....	54,507	10,381		
331213	Plates.....	....do.....	833	149		
331215	Structural shapes.....	....do.....	81	84		
331217	Wire and wire products.....	....do.....	6,126	1,780		
331219	All other carbon steel mill shapes and forms.....	....do.....	2,290	811		
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	....do.....	29,995	8,232		
331225	All other alloy steel mill shapes and forms.....	....do.....	1,734	1,725		
331231	Stainless steel mill shapes and forms.....	....do.....	344	350		
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 pounds...	118	81		
363111	Insulated wire and cable.....	1,000 pounds copper content	177	187		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	1,000 pounds...	1,809	1,010		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	....do.....	2,804	1,317		
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	....do.....	550	437		
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	Short tons....	12,183	5,702		
332311	Steel.....	....do.....	1,019	747		
336121	Copper and copper-base alloy.....	1,000 pounds...	364	264		
336111	Aluminum and aluminum-base alloy.....	....do.....	2,551	1,725		
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	71,778		
973000	Materials, parts, containers and supplies, nsk.....		xxx	214,988		

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3425—HAND SAWS AND SAW BLADES					
	Materials, parts, containers and supplies, total.....		xxx	28,132	xxx	27,653
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons.....	1,224	452	2,824	649
331212	Sheet and strip.....	do.....	5,388	3,343	5,005	3,432
331213	Plates.....	do.....	917	212	745	276
331217	Wire and wire products.....	do.....			679	145
331219	All other carbon steel mill shapes and forms.....	do.....	1,709	487	271	189
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	3,056	2,148	2,996	2,416
331225	All other alloy steel mill shapes and forms.....	do.....	5,345	8,218	7,607	5,819
331231	Stainless steel mill shapes and forms.....	do.....	24	58	32	35
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	8,914	xxx	14,692
973000	Materials, parts, containers and supplies, nsk.....		xxx	24,300	xxx	xxx
	INDUSTRY 3429—HARDWARE, NEC					
	Materials, parts, containers and supplies, total.....		xxx	530,894	xxx	451,961
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons.....	57,026	9,943	65,135	9,819
331212	Sheet and strip.....	do.....	470,952	82,033	511,402	75,569
331213	Plates.....	do.....	3,617	520	5,657	651
331215	Structural shapes.....	do.....	2,031	340	5,190	683
331217	Wire and wire products.....	do.....	63,582	14,320	67,698	12,841
331219	All other carbon steel mill shapes and forms.....	do.....	14,718	4,309	19,249	4,986
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	1,948	819	1,492	596
331225	All other alloy steel mill shapes and forms.....	do.....	3,895	2,045	2,128	1,267
331231	Stainless steel mill shapes and forms.....	do.....	26,035	26,410	26,576	22,296
	Copper and copper-base alloy:					
363111	Insulated wire and cable.....	1,000 pounds copper content	325	218	100	99
335111	Bare wire for electrical conduction only.....	1,000 pounds...	1,480	803	52,806	24,368
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	do.....	56,802	24,887		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	do.....	17,056	8,551	14,143	6,830
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	do.....	9,707	4,855		
	Primary metals and scrap:					
333111	Copper and copper-base alloy (ingot, etc.).....	Short tons.....	7,512	3,879	9,929	5,087
333311	Zinc and zinc-base alloy (ingot, etc.).....	do.....	61,802	17,144	41,565	11,250
941021	Copper and copper-base alloy scrap (purchased scrap only).....	do.....	152	78	(NA)	513
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	do.....	38,859	13,893	40,868	12,155
332311	Steel.....	do.....	12,150	4,626	2,929	1,324
336121	Copper and copper-base alloy.....	1,000 pounds...	9,246	6,506	3,377	2,232
336111	Aluminum and aluminum-base alloy.....	do.....	4,869	2,788	3,908	2,158
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	243,300	xxx	257,237
973000	Materials, parts, containers and supplies, nsk.....		xxx	258,627	xxx	xxx

NA Not available.

<sup>1</sup>Does not include castings produced and consumed in the same establishment.<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms".

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3421	CUTLERY (entire industry).....	183	11,831	52,745	9,107	17,986	34,875	126,310	51,146	179,271	2,370
	Establishments with:										
	90% or more specialization.....	153	8,359	37,216	6,466	12,672	24,884	99,269	36,764	137,247	1,853
	75-89% specialization.....	11	2,636	11,742	1,913	3,898	7,115	21,382	10,515	32,547	( <sup>1</sup> )
34211	Cutlery, scissors, shears, trimmers, and snips (primary product class of estab.).....	137	7,778	31,594	6,465	12,702	23,356	52,572	29,724	84,111	991
	Establishments with:										
	90% or more specialization....	114	6,053	24,924	5,043	9,914	18,375	42,054	22,724	66,574	835
	75-89% specialization.....	12	1,068	4,029	833	1,643	2,720	6,435	3,897	10,449	( <sup>1</sup> )
34212	Razor blades and razors except electric (primary product class of estab.).....	11	3,666	19,575	2,313	4,638	10,227	71,153	19,394	90,496	1,311
3423	HAND AND EDGE TOOLS (entire industry)..	763	30,273	142,551	23,626	45,720	99,674	267,316	168,173	440,150	8,588
	Establishments with:										
	90% or more specialization.....	662	22,724	107,057	17,971	34,635	76,746	202,893	127,410	333,948	6,281
	75-89% specialization.....	31	2,555	12,348	1,922	3,735	8,061	25,787	16,228	42,198	1,257
34231	Mechanics' hand and service tools (primary product class of estab.)..	235	12,844	62,741	9,798	19,104	42,216	113,412	76,389	192,657	3,251
	Establishments with:										
	90% or more specialization....	186	7,708	37,346	5,935	11,687	25,667	72,906	48,929	122,914	1,967
	75-89% specialization.....	19	2,196	11,289	1,709	3,239	7,855	21,145	12,967	35,071	659
34232	Edge tools (primary product class of estab.).....	233	6,718	31,205	5,314	10,238	22,265	55,107	27,811	83,034	1,487
	Establishments with:										
	90% or more specialization....	199	3,543	16,244	2,920	5,639	12,071	27,525	12,034	38,601	654
	75-89% specialization.....	15	1,163	5,548	871	1,682	3,578	9,187	5,175	14,561	( <sup>1</sup> )
34233	Files, rasps, and file accessories, and other hand tools (primary product class of estab.).....	164	9,482	43,871	7,655	14,739	31,913	91,262	58,024	150,373	3,310
	Establishments with:										
	90% or more specialization....	118	4,927	23,840	4,091	7,988	18,037	46,144	29,695	76,567	1,800
	75-89% specialization.....	16	1,920	9,032	1,438	2,782	5,925	22,162	13,600	36,033	1,016
3425	HAND SAWS AND SAW BLADES (entire industry).....	89	5,509	28,311	4,077	7,883	18,482	53,658	32,799	87,626	1,225
	Establishments with:										
	90% or more specialization.....	72	2,667	14,167	1,933	3,758	8,874	25,895	17,465	43,265	682
	75-89% specialization.....	5	154	688	128	258	524	1,175	899	2,123	( <sup>1</sup> )
3429	HARDWARE, NEC (entire industry).....	1,059	88,105	433,304	68,078	134,166	301,509	754,943	590,744	1,347,879	25,644
	Establishments with:										
	90% or more specialization.....	881	56,968	270,282	44,723	88,962	190,288	485,758	373,758	859,367	17,164
	75-89% specialization.....	57	17,048	92,457	13,049	25,405	64,905	143,911	110,829	255,672	4,633
34291	Transportation equipment hardware (primary product class of estab.)..	144	31,180	171,362	24,580	48,344	125,851	285,978	243,846	535,423	6,922
	Establishments with:										
	90% or more specialization....	99	12,618	67,188	9,903	19,755	48,997	119,126	110,246	232,990	2,312
	75-89% specialization.....	18	11,097	63,919	8,680	17,137	46,506	97,428	75,229	173,542	2,741
34292	Furniture hardware (primary product class of estab.).....	99	6,454	30,304	5,235	11,031	21,197	50,573	39,164	89,623	1,856
	Establishments with:										
	90% or more specialization....	70	2,186	9,323	1,805	3,671	6,572	15,968	15,250	31,360	641
34293	Vacuum and insulated bottles, jugs, and chests (primary product class of estab.).....	13	2,160	10,695	1,478	3,027	6,308	21,135	21,960	42,852	1,271
34294	Builders hardware (primary product class of estab.).....	325	32,539	151,059	25,284	49,217	103,282	267,376	166,770	438,836	9,482
	Establishments with:										
	90% or more specialization....	252	20,805	93,325	16,640	32,259	66,392	172,801	110,036	287,316	5,716
	75-89% specialization.....	26	2,727	12,814	2,140	4,224	8,695	22,652	16,543	38,372	1,270
34295	Other hardware (primary product class of estab.).....	315	13,399	61,036	9,568	18,994	37,715	107,933	102,775	210,254	3,992
	Establishments with:										
	90% or more specialization....	231	6,170	28,394	4,510	9,032	17,563	54,884	55,177	109,850	2,205
	75-89% specialization.....	24	2,276	10,086	1,778	3,547	7,250	16,818	14,386	30,871	527

<sup>1</sup>Less than \$500 thousand.



## METAL CANS, CUTLERY, HAND TOOLS, AND GENERAL HARDWARE

34A-23

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3411—METAL CANS								
Galvanizing and other hot dip coating.....	1	...	1	...	(D)	...	(D)	...
Machine shop.....	125	31	46	48	3,161	78	459	2,624
Tool and die shop.....	11	4	6	1	143	8	(D)	(D)
Plate or structural fabrication.....	11	1	3	7	1,294	(D)	(D)	1,252
Stamping, blanking, and forming.....	122	6	25	91	12,994	17	293	12,684
Painting, lacquering, and enameling.....	89	11	37	41	3,082	30	367	2,685
INDUSTRY 3421—CUTLERY								
Ferrous foundry.....	2	...	1	1	(D)	...	(D)	(D)
Nonferrous foundry (except die casting).....	2	2	...	...	(D)	(D)	...	...
Forging.....	27	21	5	1	122	51	(D)	(D)
Electroplating.....	20	16	3	1	83	38	(D)	(D)
Heat treating and annealing.....	47	38	8	1	161	68	(D)	(D)
Automatic screw machine department.....	9	5	4	...	44	9	35	...
Machine shop.....	40	15	19	6	523	33	144	346
Tool and die shop.....	30	16	12	2	168	27	(D)	(D)
Stamping, blanking, and forming.....	60	27	25	8	666	64	219	383
Painting, lacquering, and enameling.....	29	24	4	1	114	38	(D)	(D)
INDUSTRY 3423—HAND AND EDGE TOOLS								
Ferrous foundry.....	2	...	1	1	(D)	...	(D)	(D)
Nonferrous foundry (except die casting).....	5	3	2	...	19	(D)	(D)	...
Forging.....	101	33	52	16	1,142	92	515	535
Electroplating.....	45	23	20	2	300	55	(D)	(D)
Heat treating and annealing.....	159	128	26	5	588	239	231	118
Automatic screw machine department.....	59	35	18	6	478	67	175	236
Machine shop.....	187	65	68	54	3,557	147	622	2,788
Tool and die shop.....	122	60	45	17	1,318	130	438	750
Stamping, blanking, and forming.....	149	65	61	23	1,583	135	484	964
Painting, lacquering, and enameling.....	155	133	18	4	490	236	146	108
INDUSTRY 3425—HAND SAWS AND SAW BLADES								
Forging.....	5	3	1	1	51	(D)	(D)	(D)
Electroplating.....	3	1	2	...	13	(D)	(D)	...
Heat treating and annealing.....	26	11	9	6	285	27	64	194
Automatic screw machine department.....	4	3	1	...	15	(D)	(D)	...
Machine shop.....	33	7	16	10	570	15	181	374
Tool and die shop.....	14	7	5	2	92	16	(D)	(D)
Stamping, blanking, and forming.....	28	15	8	5	261	32	69	160
Painting, lacquering, and enameling.....	13	9	4	...	51	20	31	...
INDUSTRY 3429—HARDWARE, NOT ELSEWHERE CLASSIFIED								
Ferrous foundry.....	14	1	6	7	568	(D)	(D)	496
Nonferrous foundry (except die casting).....	59	13	34	12	803	33	360	410
Nonferrous die casting.....	45	16	16	13	1,266	41	171	1,054
Forging.....	31	9	18	4	401	16	154	231
Electroplating.....	138	52	52	34	3,372	121	507	2,744
Galvanizing and other hot dip coating.....	15	12	2	1	81	25	(D)	(D)
Heat treating and annealing.....	70	57	13	...	220	106	114	...
Automatic screw machine department.....	90	49	32	9	636	112	295	229
Machine shop.....	273	95	99	79	5,348	220	1,012	4,116
Tool and die shop.....	215	111	78	26	2,687	255	739	1,693
Foundry pattern shop.....	36	30	6	...	101	52	49	...
Plate or structural fabrication.....	32	19	9	4	231	45	72	114
Stamping, blanking, and forming.....	320	94	128	98	13,669	228	1,228	12,213
Painting, lacquering, and enameling.....	249	159	75	15	2,072	289	610	1,173

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry				
	3411	3421	3423	3425	3429
Total number of establishments in the industry.....	222	183	763	89	1,059
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none"	186	161	760	74	928
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	over 95	over 95	85-90	85-90

D Withheld to avoid disclosing figures for individual companies.





# Heating Apparatus, Except Electric, and Plumbing Fixtures

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

3431--Enameled Iron and Metal Sanitary Ware

3432--Plumbing Fixture Fittings and Trim  
(Brass Goods)

3433--Heating Equipment, Except Electric

## 3431--Enameled Iron and Metal Sanitary Ware

This industry comprises establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware. Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in Industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware in Industry 3461. For a detailed list of products of Industry 3431, refer to table 6A, product codes 3431011 to 3431098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual represent a new industry, the products of which were previously included in Industry 3431, Plumbing Fixtures and Fittings. Old Industry 3431 also included establishments engaged in the manufacture of plumbers' brass goods--faucets, fittings, etc.

Value of shipments and other receipts of the Plumbing Fixtures Industry in 1958 totaled \$215 million. This included shipments of metal plumbing fixtures (primary products) valued at \$165 million, shipments of other products (secondary products) valued at \$30 million, and miscellaneous receipts (mainly resales of \$20 million.

This industry's shipments of metal plumbing fixtures (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3431 shipments of metal plumbing fixtures (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$180 million shipped by all industries. Other industries shipping metal plumbing fixtures (primary products) included Industry 3461, Metal Stampings, \$4 million.

This industry includes establishments which fall into two significantly different categories, namely those producing cast iron plumbing fixtures and those producing metal fixtures of pressed metal. Accordingly, the manufacturing plants included in this industry involve different manufacturing processes depending upon the line of products produced. Those fixture plants producing cast iron fixtures include significant foundry operations while the pressed metal fixture plants are more closely allied to metal fabricating plants producing their product by forming processes (stamping, drawing, etc.).

The operations of the largest establishments in this industry cover the entire production process including the casting of the fixture, through the machining, finishing, and assembly operations. In general these processes are

carried on at a single manufacturing plant. However, in a few instances the foundry operations were performed at separate locations and, accordingly, those separate foundries were classified in the foundry industries (S.I.C. Industries 3321, 3322, 3323, 3361, 3362 and 3369). In the latter case the plants classified in this industry would be limited to machining and finishing operations on castings received from their associated plants.

Certain of the companies operating plants classified in this industry also have establishments producing allied products classified in other industries. For example, the larger fixture manufacturers also have plants engaged in manufacturing fixture fittings and such allied products as vitreous china fixtures, kitchen cabinets, warm air furnances, boilers and other consumer durable items in the plumbing and heating line.

As is shown in table 7, certain of the more important materials consumed by the industry are pig iron, and iron and steel scrap metal consumed in the foundry operations and steel mill shapes and forms. In addition, data are also shown for the quantity of iron castings produced and consumed within the plants classified in this industry.

Data on the shipments of plumbing fixtures were collected by the Bureau of the Census on a quarterly basis on Form M34E. The detailed statistics shown in tables 6A and 6B were taken from the quarterly survey.

## 3432--Plumbing Fixture Fittings and Trim (Brass Goods)

This industry comprises establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods). Establishments primarily engaged in the manufacture of steam or water line valves are classified in Industry 3494. For a detailed list of products of Industry 3432, refer to table 6A, product codes 3432011 to 3432098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual represent a new industry, the products of which were previously included in Industry 3431, Plumbing Fixtures and Fittings. Old Industry 3431 also included establishments engaged in the manufacture of plumbing fixtures such as bath tubs, sinks, lavatories, etc.

Value of shipments and other receipts of the Plumbing Fittings, Brass Goods, Industry in 1958 totaled \$250 million. This included shipments of plumbing fixture fittings and trim (primary products) valued at \$215 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly resales and sale of scrap) of \$14 million.

This industry's shipments of plumbing fixture fittings and trim in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included metal valves for piping system, \$3 million.

Industry 3432 shipments of plumbing fixture fittings and trim (primary products) in 1958 represented 83 percent (coverage ratio) of these products valued at \$259 million shipped by all industries. Other industries shipping



plumbing fixture fittings and trim (primary products) included Industry 3494, Valves and Pipe Fittings, \$15 million.

### 3433--Heating Equipment, Except Electric

This industry comprises establishments primarily engaged in manufacturing heating equipment for all purposes other than power, including all gas, oil, and stoker coal fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing electric stoves and ranges are classified in Industry 3631; boiler shops primarily engaged in the production of industrial, power and marine boilers in Industry 3443; and industrial process furnaces and ovens in Industry 3567. For a detailed list of products of Industry 3433, refer to table 6A, product codes 3433110 to 3433381.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3433 from code number 3439 in the previous classification system and were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. As shown in table 1A, mechanical stokers formerly classified in Industry 3568 are now included in Industry 3433.

In addition, nonelectric commercial cooking and food warming equipment formerly classified in this industry are now considered primary to Industry 3589, Service Industry Machines, N.E.C.; household ovens and ranges, equipment and parts, except electric, formerly classified in this industry are included in Industry 3631, Household Cooking Equipment; and household water heaters (except electric) formerly classified in this industry are included in Industry 3639, Household Appliances, N.E.C.

Value of shipments and other receipts of the Nonelectric Heating Equipment Industry in 1958 totaled \$913 million. This included shipments of nonelectric heating equipment (primary products) valued at \$678 million, shipments of other products (secondary products) valued at \$169 million, and miscellaneous receipts (mainly resales) of \$66 million.

This industry's shipments of nonelectric heating equipment (primary products) in 1958 represented 81 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included refrigeration machinery, \$38 million, and household water heaters, except electric, \$19 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 31 percent of the total industry shipments are represented by plants

specializing in warm air furnaces, and 29 percent in other heating equipment, except electric.

Industry 3433 shipments of nonelectric heating equipment (primary products) in 1958 represented 80 percent (coverage ratio) of these products valued at \$837 million shipped by all industries. Other industries shipping nonelectric heating equipment (primary products) included Industry 3443, Boiler Shop Products; Industry 3585, Refrigeration Machinery; and Industry 3639, Household Appliances, N.E.C.

Inasmuch as the primary products of this industry represent a wide and heterogeneous group of heating equipment products, the establishments in this industry are involved in a variety of manufacturing processes. Many heating equipment plants are engaged in metal fabricating activities, namely, stamping and forming. In addition, a significant number of the establishments in the industry are engaged in foundry and plate fabricating activities.

Some of the companies operating plants classified in Industry 3433 have establishments engaged in the production of allied products such as metal tanks, electric and nonelectric ranges, electric and nonelectric water heaters and other consumer durable items principally in the heating and cooking line.

The establishments of this industry vary greatly in the degree to which they manufacture the components used in the production of heating and cooking equipment. Some manufacturers produce practically all of the component parts and incorporate only such purchased parts as the motor, electrical controls and blowers. Other manufacturers produce only a small part of the complete unit purchasing most of the components from other manufacturers and limiting their manufacturing activities to assembly operations.

Data are shown in table 6A for "oil burners sold separately." These statistics exclude the quantity and value of oil burners which were both produced and incorporated into other types of heating equipment in the same plant. In these instances the value of the boiler- or furnace-burner unit includes the value of the oil burner.

Data on shipments of domestic heating stoves, oil burners, and furnaces were collected during 1958 by the Bureau of the Census on Annual Form MA34N, Heating and Cooking Equipment (Except Electric). The product data shown for 1958 in table 6A are from that source.

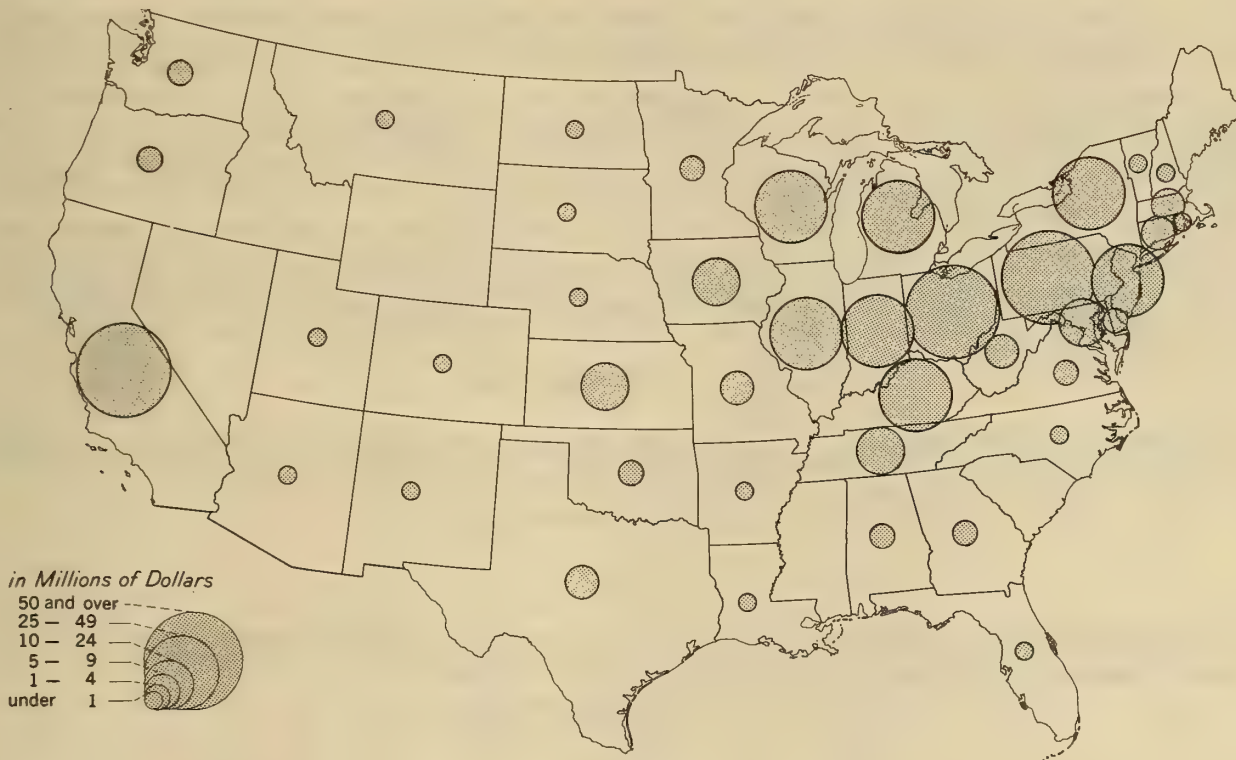
Data for unit ventilators, unit heaters and parts for unit heaters and ventilators and heat transfer coils were collected during 1958 by the Bureau of the Census on a quarterly basis on Form M35H, Fans and Blowers. The product data shown in table 6A were taken from the quarterly survey. Also, data on shipments of mechanical stokers were collected on Annual Form MA35K, Mechanical Stokers. The detailed quantity data appearing in table 6A are from that source.



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## HEATING APPARATUS (EXCEPT ELECTRIC) AND PLUMBING FIXTURES: SIC 343

Value Added by Manufacture by State: 1958



Includes Industries 3431, 3432 and 3433. See Table 2.

Bureau of the Census. M-58-D343

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.-General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3431	Plumbing fixtures: 1958(new).....	56	63	41	12,432	67,848	10,058	19,179	50,754	118,555	95,207	214,872	8,928	84	92
3432	Plumbing fittings, brass goods: 1958 (new).....	250	254	84	14,663	66,937	12,140	22,993	50,425	120,560	131,530	250,326	3,564	91	83
3431	Plumbing fixtures and fittings: <sup>8</sup>														
	1958 (old).....	(NA)	317	125	27,095	134,785	22,198	42,172	101,179	239,115	226,737	465,198	12,492	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	27,691	128,726	22,684	41,889	97,325	222,328	204,331	426,659	15,888	87	87
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	30,362	134,926	25,285	47,877	104,374	267,048	212,241	479,319	16,928	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	33,729	149,821	28,752	56,578	117,941	288,201	155,059	443,260	11,836	(NA)	(NA)
	1954.....	307	321	129	30,612	132,070	25,675	50,706	102,346	239,465	222,848	468,277	12,286	87	89
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	35,362	146,083	29,959	59,275	114,018	253,275	219,949	473,224	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	33,913	131,971	28,346	56,035	101,378	218,816	191,339	410,155	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	40,227	154,598	33,944	69,163	120,542	263,592	222,139	485,731	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	40,846	142,535	34,775	71,593	112,491	257,110	206,438	463,548	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	30,225	100,851	25,395	49,834	77,190	155,775	138,701	293,846	(NA)	(NA)	(NA)
	1947.....	263	277	134	34,748	98,316	30,698	61,083	81,849	159,081	139,464	298,545	(NA)	90	92
	1939 <sup>10</sup> .....	(NA)	247	(NA)	(NA)	(NA)	22,889	(NA)	28,686	66,743	45,648	112,391	(NA)	(NA)	(NA)
3433	Nonelectric heating equipment: <sup>11</sup>														
	1958.....	642	672	303	44,680	222,681	32,433	63,178	142,329	432,799	470,630	912,878	13,415	81	80

NA Not available.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3431 (old SIC)	240,944

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954
3431	79,959	202,315
3432	126,417	
3433	425,582	
		(NA)

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)	
	1958	1954
3431	197,133	443,260
3432	243,977	
3433	858,868	
		(NA)

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The two industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.



Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manu- facture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manu- facture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3433—Nonelectric Heating Equipment.....	672	303	44,680	432,799	xxx	xxx	xxx	xxx
Old Industry 3439—Heating and Cooking Apparatus (Except Electric) nec.....	649	290	43,281	421,195	829	402	67,904	637,846
Old Industry 3568—Mechanical Stokers.....	19	9	693	5,566	19	9	693	5,566
All other industries <sup>1</sup> .....	4	4	706	6,038	xxx	xxx	xxx	xxx

<sup>1</sup>These data are for a miscellaneous group of establishments that were classified in this industry because of shifts in their product classification to conform to the new SIC and classification errors for small establishments that were not corrected since they were not statistically significant.

Revised.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3431	Plumbing fixtures, total.....	63	41	12,432	67,848	10,058	19,179	50,754	118,555	214,872	8,928	(2)	(2)	(2)
	Northeast.....	17	12	1,941	10,646	1,559	2,924	8,026	18,455	34,097	1,242	(2)	(2)	(2)
	Pennsylvania....	9	5	1,410	7,684	1,134	2,154	5,913	12,834	22,824	(3)	(2)	(2)	(2)
	North Central.....	25	16	5,930	34,889	4,690	9,296	24,574	57,799	105,361	1,919	(2)	(2)	(2)
	Illinois.....	7	5	677	3,883	523	1,023	2,602	7,624	13,232	(3)	(2)	(2)	(2)
	South and West....	21	13	4,561	22,313	3,809	6,959	18,154	42,301	75,414	5,767	(2)	(2)	(2)
3432	Plumbing fittings, brass goods, total.	254	84	14,663	66,937	12,140	22,993	50,425	120,560	250,326	3,564	(2)	(2)	(2)
	Northeast.....	97	26	2,309	9,161	1,866	3,695	6,687	18,887	40,671	495	(2)	(2)	(2)
	Connecticut.....	19	8	563	2,304	476	913	1,744	5,258	10,484	(3)	(2)	(2)	(2)
	Pennsylvania....	21	4	586	1,927	472	902	1,482	2,868	6,396	(3)	(2)	(2)	(2)
	North Central.....	87	34	6,563	31,743	5,330	10,256	23,008	54,108	112,023	1,914	(2)	(2)	(2)
	Illinois.....	21	7	1,170	6,197	966	1,929	4,741	8,867	21,578	(3)	(2)	(2)	(2)
	South and West....	70	24	5,791	26,033	4,944	9,042	20,730	47,565	97,632	1,155	(2)	(2)	(2)
3433	Nonelectric heating equipment, total....	672	303	44,680	222,681	32,433	63,178	142,329	432,799	912,878	13,415	(4)	(4)	(4)
	New England.....	53	15	1,344	6,465	1,027	2,101	4,531	11,438	24,391	(2)	(4)	(4)	(4)
	Massachusetts....	26	8	851	4,101	653	1,348	2,816	7,256	13,576	(3)	(4)	(4)	(4)
	Connecticut.....	17	6	415	1,993	311	628	1,457	3,631	9,127	(2)	(4)	(4)	(4)
	Middle Atlantic....	192	81	12,678	63,963	9,567	18,775	43,938	126,853	264,615	4,628	(4)	(4)	(4)
	New York.....	64	26	4,206	21,307	3,202	6,302	14,994	39,909	89,097	1,399	(4)	(4)	(4)
	New Jersey.....	53	18	2,812	14,244	2,060	3,997	9,433	23,960	59,271	754	(4)	(4)	(4)
	Pennsylvania....	75	37	5,660	28,412	4,305	8,476	19,511	62,984	116,247	2,475	(4)	(4)	(4)
	East North Central	206	104	18,567	95,953	12,844	25,053	58,564	188,494	398,001	4,595	(4)	(4)	(4)
	Ohio.....	54	31	6,023	32,281	4,122	7,956	18,997	66,143	140,042	928	(4)	(4)	(4)
	Indiana.....	31	16	2,459	11,401	1,551	2,913	6,184	22,402	51,046	801	(4)	(4)	(4)
	Illinois.....	65	31	6,067	30,870	4,542	8,900	20,242	64,515	136,025	2,158	(4)	(4)	(4)
	Michigan.....	40	18	1,706	8,378	981	1,862	4,358	13,165	29,923	(3)	(4)	(4)	(4)
	Wisconsin.....	16	8	2,312	13,023	1,648	3,422	8,783	22,269	40,965	570	(4)	(4)	(4)
	West North Central	48	22	3,192	16,045	2,272	4,503	10,465	40,726	81,511	1,026	(4)	(4)	(4)
	South.....	72	41	5,348	21,492	4,152	7,963	13,864	34,262	77,544	1,248	(4)	(4)	(4)
	Tennessee.....	8	8	1,972	7,641	1,487	2,855	4,673	13,256	29,016	(3)	(4)	(4)	(4)
	Alabama.....	5	4	735	2,565	639	1,234	1,856	3,988	8,671	(3)	(4)	(4)	(4)
	Texas.....	14	4	567	2,313	386	693	1,226	4,992	9,637	(3)	(4)	(4)	(4)
	West.....	101	40	3,551	18,763	2,571	4,783	10,967	31,026	66,816	1,473	(4)	(4)	(4)
	California.....	66	26	2,860	15,635	2,049	3,854	8,802	26,565	57,538	1,302	(4)	(4)	(4)

See footnotes on following page.

## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for Table 2—34B

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State in 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3431, Plumbing Fixtures: Northeast—Massachusetts, 1 (20-99); New York, 4 (100-249); New Jersey, 3 (250-499); North Central—Ohio, 7 (2,451); Indiana, 3 (250-499); Michigan, 2 (250-499); Wisconsin, 3 (2,025); Iowa, 1 (1-19); Missouri, 1 (20-99); Kansas, 1 (1-19); South and West—Maryland, 2 (1,000-2,499); Georgia, 1 (1-19); Florida, 1 (1-19); Kentucky, 1 (1,000-2,499); Tennessee, 2 (500-999); Oklahoma, 1 (1-19); Texas, 3 (100-249); California, 10 (500-999).

SIC 3432, Plumbing Fittings, Brass Goods: Northeast—New Hampshire, 2 (100-249); Massachusetts, 11 (100-249); Rhode Island, 2 (20-99); New York, 39 (500-999); New Jersey, 3 (20-99); North Central—Ohio, 27 (2,213); Indiana, 6 (500-999); Michigan, 12 (1,000-2,499); Wisconsin, 10 (250-499); Minnesota, 2 (100-249); Iowa, 2 (250-499); Missouri, 7 (100-249); South and West—Delaware, 1 (250-499); Maryland, 2 (1-19); District of Columbia, 1 (1-19); Virginia, 1 (1-19); West Virginia, 2 (1,000-2,499); Georgia, 2 (1-19); Florida, 4 (20-99); Kentucky, 1 (1,000-2,499); Tennessee, 1 (1-19); Arkansas, 1 (1-19); Texas, 8 (250-499); Colorado, 2 (1-19); Washington 2 (1-19); Oregon, 2 (1-19); California, 40 (2,090).

SIC 3433, Nonelectric Heating Equipment: New England—New Hampshire, 1 (1-19); Vermont, 1 (1-19); Rhode Island, 8 (20-99); West North Central—Minnesota, 7 (250-499); Iowa, 7 (500-999); Missouri, 20 (500-999); North Dakota, 2 (1-19); South Dakota, 2 (1-19); Nebraska, 3 (20-99); Kansas, 7 (100-249); South—Delaware, 2 (100-249); Maryland, 6 (100-249); Virginia, 3 (250-499); West Virginia, 1 (100-249); North Carolina, 6 (20-99); Georgia, 6 (250-499); Florida, 5 (20-99); Kentucky, 7 (500-999); Arkansas, 3 (20-99); Louisiana, 2 (1-19); Oklahoma, 4 (100-249); West—Montana, 1 (20-99); Colorado, 3 (1-19); New Mexico, 1 (20-99); Arizona, 2 (1-19); Utah, 3 (20-99); Washington, 16 (250-499); Oregon, 9 (100-249).

<sup>2</sup>Industries 3431 and 3432 were a single industry in 1957 and earlier years. They are shown combined in table 2A so that historical data may be presented.

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3431	Plumbing fixtures and fittings, total <sup>2</sup> .....	317	125	27,095	134,785	22,198	42,172	101,179	239,115	465,198	12,492	30,612	240,944	34,748
	New England.....	35	13	901	3,734	762	1,462	2,799	7,775	15,466	( <sup>3</sup> )	2,936	12,552	4,708
	Massachusetts...	12	2	160	684	139	264	499	1,502	2,836	( <sup>3</sup> )	113	585	269
	Connecticut.....	19	8	563	2,304	476	913	1,744	5,258	10,484	( <sup>3</sup> )	2,515	10,645	4,234
	Middle Atlantic...	79	25	3,349	16,073	2,663	5,157	11,914	29,567	59,302	1,562	3,535	26,455	4,967
	New York.....	43	13	905	4,268	694	1,471	2,809	8,180	20,613	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New Jersey.....	6	3	448	2,194	363	630	1,710	5,685	9,469	757	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pennsylvania....	30	9	1,996	9,611	1,606	3,056	7,395	15,702	29,220	665	1,868	14,167	3,492
	East North Central	98	45	11,564	62,285	9,297	18,149	44,572	105,163	202,698	3,735	12,258	103,196	11,801
	Illinois.....	28	12	1,847	10,080	1,489	2,952	7,343	16,491	34,810	566	1,396	11,875	1,516
	Michigan.....	14	7	1,821	10,527	1,326	2,612	7,024	15,773	31,034	( <sup>3</sup> )	1,858	17,151	1,628
	Wisconsin.....	13	5	2,474	14,425	1,990	4,125	9,741	23,901	40,529	666	2,541	23,836	3,224
	West North Central	14	5	929	4,347	723	1,403	3,010	6,744	14,686	( <sup>3</sup> )	666	4,764	614
	South.....	35	15	7,478	34,091	6,330	11,244	27,751	62,017	115,085	5,478	8,069	65,076	(D)
	Texas.....	11	6	499	2,002	414	849	1,438	4,818	9,522	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	56	22	2,874	14,255	2,423	4,757	11,133	27,849	57,961	1,444	3,145	28,897	(D)
	California.....	50	22	2,850	14,143	2,403	4,723	11,038	27,656	57,589	1,415	3,070	28,347	2,827

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3431, Plumbing Fixtures and Fittings: New England—New Hampshire, 2 (100-249); Rhode Island, 2 (20-99); East North Central—Ohio, 34 (4,664); Indiana, 9 (500-999); West North Central—Minnesota, 2 (100-249); Iowa, 3 (250-499); Missouri, 8 (250-499); Kansas, 1 (1-19); South—Delaware, 1 (250-499); Maryland, 4 (1,165); District of Columbia, 1 (1-19); Virginia, 1 (1-19); West Virginia, 2 (1,000-2,499); Georgia, 3 (1-19); Florida, 5 (20-99); Kentucky, 2 (2,500-4,999); Tennessee, 3 (500-999); Arkansas, 1 (1-19); Oklahoma, 1 (1-19); West—Colorado, 2 (1-19); Washington, 2 (1-19); Oregon, 2 (1-19).

<sup>2</sup>See footnote 8 of table 1. Table 2A is based on the definition of the industry under 1945 Standard Industrial Classification.

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



## HEATING APPARATUS, EXCEPT ELECTRIC, AND PLUMBING FIXTURES

34B-7

Table 3.—Detailed Statistics for the United States: 1958

Item	Plumbing fixtures (SIC 3431)	Plumbing fittings, brass goods (SIC 3432)	Nonelectric heating equipment (SIC 3433)
Primary product specialization ratio <sup>1</sup> .....	84	91	81
Coverage ratio <sup>2</sup> .....	92	83	80
Number of establishments, total.....	63	254	672
With 1-19 employees.....	22	170	369
With 20-99 employees.....	21	47	193
With 100 employees or more.....	20	37	110
Proprietors and working partners.....Number..	13	96	211
All employees:			
Number (average for the year).....	12,432	14,663	44,680
Payroll.....\$1,000..	67,848	66,937	222,681
Production workers:			
Number (average for the year).....	10,058	12,140	32,433
March.....	10,695	12,816	30,935
May.....	9,923	12,106	31,525
August.....	9,920	11,879	33,328
November.....	9,888	11,884	34,112
Man-hours.....1,000..	19,179	22,993	63,178
January-March.....do....	4,919	6,109	14,647
April-June.....do....	4,820	5,786	15,333
July-September.....do....	4,552	5,339	15,859
October-December.....do....	4,878	5,759	17,339
Wages.....\$1,000..	50,754	50,425	142,329
Cost of materials, etc., total.....do....	95,207	131,530	470,630
Materials, parts, containers, and supplies consumed.....do....	73,354	120,065	412,955
Cost of resales.....do....	15,248	5,113	45,048
Fuels consumed.....do....	4,200	1,162	4,013
Electricity purchased.....do....	1,742	1,556	4,101
Contract work.....do....	663	3,636	4,513
Value of shipments (including resales), total.....do....	214,872	250,326	912,878
Value of resales.....do....	17,739	6,349	54,010
Value added by manufacture, adjusted.....do....	118,555	120,560	432,799
Manufacturers' inventories:			
Beginning of year, total.....do....	40,460	43,732	190,137
Finished products.....do....	19,260	16,013	85,729
Work-in-process.....do....	7,017	14,845	30,656
Materials, supplies, fuel, etc.....do....	14,183	12,874	73,752
End of year, total.....do....	39,042	44,785	180,974
Finished products.....do....	18,390	17,562	76,388
Work-in-process.....do....	6,777	15,060	30,548
Materials, supplies, fuel, etc.....do....	13,875	12,163	74,038
Expenditures for plant and equipment, total.....do....	9,355	3,866	14,617
New, total.....do....	8,928	3,564	13,415
New structures and additions to plant.....do....	2,169	808	3,891
New machinery and equipment.....do....	6,759	2,756	9,524
Used plant and equipment.....do....	427	302	1,201

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3431	Plumbing fixtures: Number of establishments.....	63	11	6	5	13	8	4	9	4	3	...
	All employees:											
	Number.....	12,432	58	(D)	74	358	576	781	3,477	<u>7,108</u>	(D)	...
	Payroll.....\$1,000..	67,848	<u>200</u>	(D)	393	1,752	3,134	4,035	19,882	<u>38,452</u>	(D)	...
	Value added, adjusted..do....	118,555	<u>404</u>	(D)	914	4,966	5,310	7,081	34,035	<u>65,845</u>	(D)	...
	Value of shipments.....do....	214,872	<u>1,202</u>	(D)	1,882	8,943	10,374	13,849	61,513	<u>117,109</u>	(D)	...
	Capital expend., new...do....	8,928	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,250	<u>5,830</u>	(D)	...
3432	Plumbing fittings, brass goods: Number of establishments.....	254	70	55	45	30	17	24	8	4	1	...
	All employees:											
	Number.....	14,663	149	367	627	1,055	1,247	3,906	2,549	<u>4,763</u>	(D)	...
	Payroll.....\$1,000..	66,937	622	1,546	2,688	4,560	5,237	16,787	12,516	<u>22,981</u>	(D)	...
	Value added, adjusted..do....	120,560	1,560	3,216	5,546	8,425	9,107	31,287	22,341	<u>39,078</u>	(D)	...
	Value of shipments.....do....	250,326	3,402	7,021	12,542	17,684	19,814	69,121	45,215	<u>75,527</u>	(D)	...
	Capital expend., new...do....	3,564	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	894	( <sup>2</sup> )	<u>1,239</u>	(D)	...
3433	Nonelectric heating equipment: Number of establishments.....	672	178	95	96	126	67	58	34	17	1	...
	All employees:											
	Number.....	44,680	381	662	1,345	3,871	4,805	9,228	12,107	<u>12,281</u>	(D)	...
	Payroll.....\$1,000..	222,681	1,582	2,948	6,285	18,697	23,110	44,065	59,768	<u>66,226</u>	(D)	...
	Value added, adjusted..do....	432,799	2,302	5,072	10,327	34,534	41,760	80,882	121,862	<u>136,060</u>	(D)	...
	Value of shipments.....do....	912,878	7,684	12,665	26,389	77,213	91,867	181,340	248,805	<u>266,915</u>	(D)	...
	Capital expend., new...do....	13,415	( <sup>1</sup> )	( <sup>1</sup> )	946	1,063	1,262	2,423	3,185	<u>4,144</u>	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3431	Plumbing fixtures.....1958..	214,872	164,787	30,493	19,592	84	180,006	164,787	15,219	92
3432	Plumbing fittings, brass goods..1958..	250,326	215,210	21,475	13,641	91	259,485	215,210	44,275	83
3433	Nonelectric heating equipment...1958..	912,878	677,918	168,599	66,361	81	836,974	677,918	159,056	80

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Plumbing fixtures industry	Plumbing fixtures (SIC 3431)	Other industries	All industries
34310	Total shipments and receipts of the industry.....	214,872	xxx	xxx
	Metal plumbing fixtures.....	164,787	<sup>1</sup> 15,219	180,006
	Secondary products.....	<sup>2</sup> 30,493	xxx	xxx
	Miscellaneous receipts.....	19,592	xxx	xxx
	Resales.....	17,739	xxx	xxx
	Other.....	1,853	xxx	xxx
Prod. class code	Plumbing fittings, brass goods, industry	Plumbing fittings, brass goods (SIC 3432)	Other industries	All industries
34320	Total shipments and receipts of the industry.....	250,326	xxx	xxx
	Plumbing fixture fittings and trim (brass goods).....	215,210	<sup>3</sup> 44,275	259,485
	Secondary products.....	21,475	xxx	xxx
3494-	Valves and pipe fittings.....	<sup>4</sup> 5,862	xxx	xxx
	Other.....	<sup>5</sup> 15,613	xxx	xxx
	Miscellaneous receipts.....	13,641	xxx	xxx
	Contract and commission work.....	1,823	xxx	xxx
	Resales.....	6,349	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	4,662	xxx	xxx
	Other.....	807	xxx	xxx

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry,  
for the United States: 1958-Continued

Prod. class code	Nonelectric heating equipment industry	Nonelectric heating equipment (SIC 3433)	Other industries	All industries
	Total shipments and receipts of the industry.....	912,878	xxx	xxx
	Primary products.....	677,918	159,056	836,974
34331	Oil burners, residential and industrial (sold separately) except parts.....	38,145	<sup>6</sup> 8,456	46,601
34332	Warm air furnaces (except floor and wall) except parts.....	203,982	<sup>7</sup> 28,548	232,530
34333	Cast-iron heating boilers, radiators, and convectors, except parts.....	111,169	<sup>8</sup> 10,322	121,491
34334	Domestic heating stoves (except electric), except parts.....	53,569	<sup>9</sup> 16,205	69,774
34335	Steel heating boilers (15 P.S.I. and under) except parts.....	52,491	<sup>10</sup> 10,335	62,826
34336	Other heating equipment, except electric, including parts for nonelectric heating equipment.....	185,599	<sup>11</sup> 82,438	268,037
34330	Nonelectric heating equipment, nsk.....	32,963	2,752	35,715
	Secondary products.....	168,599	xxx	xxx
3321-	Gray iron castings.....	2,318	xxx	xxx
3443-	Boiler shop products.....	<sup>12</sup> 17,524	xxx	xxx
34440	Sheet-metal roofing and siding and roof drainage equipment.....	2,602	xxx	xxx
34443	Other sheet-metal work.....	10,823	xxx	xxx
3461-	Metal stampings.....	3,370	xxx	xxx
3494-	Valves and pipe fittings.....	<sup>13</sup> 10,062	xxx	xxx
35641	Industrial fans and blowers.....	7,471	xxx	xxx
3585-	Refrigeration machinery.....	<sup>14</sup> 37,876	xxx	xxx
36312	Household ovens and ranges, equipment and parts, except electrical.....	16,692	xxx	xxx
36391	Household water heaters, electric.....	3,054	xxx	xxx
36392	Household water heaters, except electric.....	19,493	xxx	xxx
	Other.....	<sup>15</sup> 37,314	xxx	xxx
	Miscellaneous receipts.....	66,361	xxx	xxx
	Contract and commission work.....	4,998	xxx	xxx
	Resales.....	54,010	xxx	xxx
	Installation work by manufacturing plant employees.....	1,316	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	5,139	xxx	xxx
	Other.....	898	xxx	xxx

<sup>1</sup>Includes \$4,065 thousand shipped by industry 3461, Metal Stampings. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: Industry 2514, Metal Household Furniture.

<sup>2</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures - Product class 25142, Metal kitchen furniture; 34320, Plumbing fixture fittings and trim; 34333, Cast-iron heating boilers, radiators and convectors, except parts and 34611, Vitreous enameled products.

<sup>3</sup>Includes \$14,623 thousand shipped by Industry 3494, Valves and Pipe Fittings. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3451, Screen Machine Products and 3461, Metal Stampings.

<sup>4</sup>Includes \$3,351 thousand for product class 34941, Metal valves for piping systems.

<sup>5</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33211, Molds for heavy steel ingots and 36393, Other household appliances and parts.

<sup>6</sup>Includes the following industries which total \$2 million or more but are withheld to avoid disclosing individual company figures: 3586, Measuring and Dispensing Pumps and 3731, Ship Building and Repairing.

<sup>7</sup>Includes \$3,420 thousand shipped by Industry 3522, Farm Machinery and Equipment, \$6,839 thousand shipped by Industry 3585, Refrigeration Machinery, and \$6,229 thousand shipped by Industry 3639, Household Appliances, NEC. In addition, the following industry had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 3621, Motors and Generators.

<sup>8</sup>Includes \$4,075 thousand shipped by Industry 3639, Household Appliances, NEC. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 3431, Plumbing Fixtures.

<sup>9</sup>Includes \$6,456 thousand shipped by Industry 3631, Household Cooking Equipment. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 3585, Refrigeration Machinery and 3717, Motor Vehicles and Parts.

<sup>10</sup>Includes \$8,543 thousand shipped by Industry 3443, Boiler Shop Products.

<sup>11</sup>Includes \$5,554 thousand shipped by Industry 3443, Boiler Shop Products, \$2,110 thousand shipped by Industry 3522, Farm Machinery and Equipment, \$3,627 thousand shipped by Industry 3559, Special Industrial Machinery, NEC and \$5,185 thousand shipped by Industry 3564, Blowers and Fans. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 3531, Construction Machinery.

<sup>12</sup>Includes \$12,645 thousand of product class 34433, steel power boilers, parts and attachments (over 15 P.S.I.) steam working pressure.

<sup>13</sup>Includes \$7,461 thousand of product class 34943, Plumbing and heating valves and specialties (except plumbers' brass goods).

<sup>14</sup>Includes \$27,723 thousand of product class 35851, heat transfer equipment and \$7,222 thousand of product class 35857, Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment.

<sup>15</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 25311, School furniture, except stone and concrete; 34912, Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels; 36426, Other electric and nonelectric lighting equipment and parts and accessories and 37224, Aircraft engine parts (including parts for missile engines).



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3431---	Metal plumbing fixtures, total <sup>1</sup> .....		xxx	180,006	xxx	207,236
3431011	Enameled iron and metal plumbing fixtures: As reported in the Census of Manufactures.....		xxx	<sup>2</sup> 168,259	xxx	<sup>2</sup> 201,624
	As reported on quarterly Form M54E.....		xxx	180,153	xxx	196,704
	Drinking fountains (cast iron and other metals, concrete and composition).....	1,000 units...	55	(NA)	38	(NA)
	Lavatories, cast iron.....	..do.....	1,301	(NA)	1,342	(NA)
	Lavatories, steel.....	..do.....	271	(NA)	248	(NA)
	Kitchen sinks:					
	Cast iron.....	..do.....	818	(NA)	1,008	(NA)
	Steel.....	..do.....	1,311	(NA)	1,169	(NA)
	Porcelain enameled.....	..do.....	979	(NA)	1,169	(NA)
	Stainless.....	..do.....	332	(NA)		(NA)
	Other metals, vitreous china, and glazed earthenware.....	..do.....	2	(NA)	4	(NA)
	Wash sinks (cast iron, steel, concrete, composition, and vitreous china).....	..do.....	24	(NA)	17	(NA)
	Service sinks, cast iron.....	..do.....	84	(NA)	59	(NA)
	Service sinks (other metals, vitreous china, and glazed earthenware)..	..do.....	20	(NA)	19	(NA)
	Sink and laundry tray combinations, cast iron.....	..do.....	57	(NA)	85	(NA)
	Sink and laundry tray combinations, steel.....	..do.....	25	(NA)	<sup>3</sup> 70	(NA)
	Laundry trays, vitreous china, cast iron, steel, and glazed earth- enware.....	..do.....	77	(NA)	109	(NA)
	Bathtubs, cast iron.....	..do.....	1,464	(NA)	1,507	(NA)
	Bathtubs, steel.....	..do.....	697	(NA)	564	(NA)
	Shower receptors, sold separately (steel, other metals, concrete and composition).....	..do.....	12	(NA)	12	(NA)
	Showerstalls, including receptors, steel.....	..do.....	179	(NA)	176	(NA)
	Showerstalls, including receptors, (aluminum, monel, and other metal, concrete and composition).....	..do.....	2	(NA)	6	(NA)
3431098	Other metal plumbing fixtures.....		xxx	11,747	xxx	5,612
3432---	Plumbing fixture fittings and trim, brass goods, total.....		xxx	259,485	xxx	212,404
	Bath and shower fittings:					
3432011	Tub fillers.....	1,000 units...	1,318	7,146	710	4,564
3432013	Tub and shower fittings.....	..do.....	1,770	16,605	1,487	15,806
3432015	Shower fittings.....	..do.....	(NA)	8,139	1,770	6,259
3432017	Bathtub faucets (for leg tubs).....	..do.....	419	1,146	467	1,401
3432018	Bath drains and overflows.....	..do.....	2,764	10,858	2,320	8,698
	Lavatory fittings:					
3432021	Combination 4" center-set fittings (with or without pop-up drains).....	..do.....	3,113	18,247	1,801	12,016
3432023	Other combination center-set fittings (with or without pop-up drains)...	..do.....	1,316	11,386	1,255	12,274
3432025	Pop-up drains sold separately.....	..do.....	1,832	535	397	998
3432027	Single lavatory faucets (compression).....	..do.....	2,837	4,647	2,311	3,917
	Sink fittings:					
3432031	Deck type sink faucets.....	..do.....	3,386	25,957	2,948	19,222
3432033	Other combination sink faucets.....	..do.....	1,179	7,274	1,170	7,675
3432035	Single sink faucets.....	..do.....	2,747	3,603	1,886	1,852
	Miscellaneous items:					
3432041	Compression stops.....	..do.....	10,954	6,262	4,499	3,276
3432042	Compression stops and drains.....	..do.....	3,102	2,098	4,958	3,324
3432043	Sediment faucets.....	..do.....	(NA)	3,526	7,118	3,732
3432044	Double laundry tray faucets.....	..do.....	632	2,253	676	2,069
3432045	P traps.....	..do.....	5,673	7,606	4,806	7,009
3432046	S traps.....	..do.....	1,539	2,636	1,944	3,299
3432098	Other metal bath and shower fittings, lavatory fittings, sink fittings, and miscellaneous items including lavatory legs, strainers, etc.....		xxx	86,710	xxx	80,860
3432000	Plumbing fixture fittings and trim, nsk.....		xxx	32,851	xxx	14,153
3433---	Heating equipment (except electric), total.....		xxx	836,974	xxx	772,519
34331--	Oil burners, sold separately.....		xxx	46,601	xxx	54,805
3433110	Reported in the Census of Manufactures.....		xxx	39,835	xxx	52,945
	Reported on Annual Form MA34N.....	Units.....	414,252	37,227	(NA)	(NA)
	Residential:					
	Low-pressure atomizing.....	..do.....	12,820	1,089	36,448	4,852
	High-pressure atomizing.....	..do.....	365,323	20,747	461,553	32,328
	Rotary atomizing and vaporizing.....	..do.....	1,885	220	20,177	2,423
	Pot natural-draft vaporizing.....	..do.....	2,387	93		
	Pot mechanical-draft vaporizing.....	..do.....				
	Commercial and industrial <sup>4</sup> :					
	Low-pressure atomizing.....	..do.....	12,059	2,951	5,780	810
	High-pressure atomizing.....	..do.....	13,619	4,300	14,056	4,464
	Rotary atomizing.....	..do.....	6,565	7,827	10,556	8,068

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3433---	Heating equipment (except electric)—Continued					
34331--	Oil burners, sold separately—Continued					
3433171	Oil burners, range type (sleeve and pot type for use in water heaters, stoves, ranges, etc.).....	No. of units..	(NA)	2,136	(NA)	(5)
3433100	Oil burners, nsk.....	.....	xxx	4,630	xxx	51,860
34332--	Warm air furnaces:					
3433200	Reported in the Census of Manufactures.....	.....	xxx	232,530	xxx	222,500
	Reported on Annual Form MA34N.....	Units.....	1,234,685	224,244	(NA)	(NA)
	Cast iron:					
	Forced-air furnaces:					
	Solid fuel (coal, coke, wood).....	.....do.....	218	116	1,321	300
	Oil.....	.....do.....	518	387	3,813	1,761
	Gas.....	.....do.....	44,737	6,386	41,391	8,226
	Gravity air-flow furnaces:					
	Solid fuel (coal, coke, wood).....	.....do.....	(e)	(e)	16,268	3,017
	Gas and oil.....	.....do.....	(e)	(e)	(e)	(e)
	Steel:					
	Forced-air furnaces:					
	Solid fuel (coal, coke, wood):					
	150,000 BTU bonnet output and under.....	.....do.....	11,946	3,119	10,657	2,599
	Over 150,000 BTU bonnet output.....	.....do.....	1,594	627	983	305
	Oil:					
	150,000 BTU bonnet output and under.....	.....do.....	328,441	77,852	356,289	77,953
	Over 150,000 BTU bonnet output.....	.....do.....				
	Gas:					
	150,000 BTU bonnet output and under.....	.....do.....	787,783	126,775	509,355	82,495
	Over 150,000 BTU bonnet output.....	.....do.....				
	Gravity air-flow furnaces:					
	Solid fuel (coal, coke, wood).....	.....do.....	e26,467	e4,994	25,939	3,853
	Oil.....	.....do.....	e2,455	e635	e11,108	e2,084
	Gas.....	.....do.....	e30,526	e3,353	e64,968	e6,928
	Warm air furnaces, nsk.....	.....	...	...	xxx	3,893
34333--	Cast iron heating boilers, radiators, and convectors.....	.....	xxx	121,491	xxx	104,210
	Cast iron boilers:					
	Reported on Annual Survey Form MA34N.....	1,000 lbs.....	215,763	63,560	(NA)	(NA)
	Reported in the Census of Manufactures.....	.....do.....	196,455	58,624	220,241	52,601
3433311	Oil.....	.....do.....	93,112	24,019	98,000	20,662
3433313	Gas.....	.....do.....	84,306	29,098	67,305	20,952
3433315	Solid fuel.....	.....do.....	19,037	5,507	54,936	10,987
3433330 } 3433350 }	Cast iron radiators and convectors:	1,000 sq.ft.				
	Reported in the Census of Manufactures.....	of radiation.	(NA)	18,156	28,941	21,042
	Reported on Annual Survey Form MA34N.....	.....do.....	22,350	16,754	(NA)	(NA)
	Steel and nonferrous convectors:					
	Nonferrous:					
3433371	Residential.....	1,000 sq. ft.	(NA)	19,004	36,044	16,544
3433375	Industrial and special types (with and without an enclosure).....	equiv. direct	23,297	12,565	10,417	5,430
3433381	Steel, residential and industrial.....	radiation....	15,350	8,601	20,606	8,294
3433300	Cast iron heating boilers, radiators, and convectors, nsk.....	.....	xxx	4,541	xxx	299
34334--	Domestic heating stoves, complete (except electric):					
3433400	Reported in Census of Manufactures.....	.....	xxx	69,774	xxx	70,080
	Reported on Annual Form MA34N.....	No. of units..	2,604,360	73,782	(NA)	(NA)
	Gas:					
	Vented circulators.....	.....do.....	436,535	25,793	385,538	17,502
	Unvented circulators.....	.....do.....	711,499	10,280	770,834	8,843
	Radiants.....	.....do.....	235,899	2,771	275,330	4,271
	All other.....	.....do.....	101,035	797	(NA)	548
	Wood (sheet-metal airtight type).....	.....do.....	342,140	2,160	(7)	(7)
	Coal and wood (other than sheet-metal airtight type):					
	Circulators (standard and magazine types).....	.....do.....	80,077	4,543	40,822	1,820
	Magazine radiants.....	.....do.....	62,346	2,236	52,979	1,487
	Oaks and hot blasts.....	.....do.....	23,872	501	16,883	283
	Laundry stoves (without cored fire pots).....	.....do.....	39,905	459	49,238	515
	All other (including kitchen heaters, caboose, schoolroom, woodbox, etc.).....	.....do.....	104,318	2,159	7415,524	74,116
	Kerosene, gasoline, and fuel oil:					
	Flue-connected circulators and radiant circulators with vaporizing pot-type burners.....	Units.....	193,701	14,412	435,420	25,512
	Flue-connected radiant heaters (without casing) and trailer heaters, equipped with vaporizing pot-type burners.....	.....do.....	59,515	5,165	34,527	1,550
	Flue-connected heater equipped with sleeve burner.....	.....do.....				
	Unvented portable kerosene heaters.....	.....do.....	213,518	2,506	195,622	1,950
	Domestic heating stoves, nsk.....	.....	...	...	xxx	371

See footnotes at end of table.



## HEATING APPARATUS, EXCEPT ELECTRIC, AND PLUMBING FIXTURES

34B-13

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3433--	Heating equipment (except electric)—Continued					
34335--	Steel heating boilers (15 PSI and under or equivalent).....		xxx	62,826	xxx	53,160
3433512	Steel heating boilers (15 PSI steam working pressure and under) and all hot water boilers: 294 sq. ft. of heating surface or less.....	Units.....	82,662	32,432	8129,048	851,618
3433521	Over 294 sq. ft. of heating surface:					
3433541	Horizontal fire box.....	No. of units..	9,437	17,019		
3433500	Other (including scotch type).....	..do.....	3,116	11,911		
3433500	Steel heating boilers, nsk.....		xxx	1,464	xxx	1,542
34336--	Other heating equipment, except electric, including parts.....		xxx	268,037	xxx	267,764
3433612	Gas burners (for furnaces, boilers, water heaters, etc.): Residential, commercial, and industrial, sold separately (except gas conversion).....		xxx	9,055	xxx	18,085
3433614	Gas conversion burners, residential, commercial, and industrial.....	No. of units..	135,365	12,628		
3433618	Parts and attachments for gas burners, sold separately.....	..do.....	xxx	4,405		
3433619	Floor and wall furnaces: Reported in Census of Manufactures.....		xxx	28,963	(NA)	(NA)
	Reported on Annual Form MA34N.....	Units.....	494,505	32,306	(NA)	(NA)
	Oil floor furnaces.....	..do.....	15,828	1,739	45,664	4,590
	Gas floor furnaces.....	..do.....	98,541	7,074	172,539	11,892
	Oil wall furnaces.....	..do.....	24,681	2,599	18,312	1,793
	Gas wall furnaces.....	..do.....	355,455	20,894	347,619	18,671
3433630	Unit heaters: Reported in Census of Manufactures.....		xxx	47,912	xxx	864,181
	Reported on quarterly Form M35H.....		xxx	43,707	xxx	35,453
	Centrifugal fan-type (blower): Steam or hot water heating elements.....		xxx	11,746	xxx	35,453
	Gas fired.....		xxx	4,153		
	Propeller fan-type: Steam or hot water heating elements.....		xxx	11,391		
	Gas fired.....		xxx	16,417		
3433635	Parts for unit heaters: Reported in Census of Manufactures.....		xxx	(9)	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	10659	xxx	10391
3433640	Heat transfer coils: Reported in Census of Manufactures.....		xxx	8,075	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	8,437	xxx	6,982
	Copper or aluminum.....		xxx	8,160	xxx	6,982
	All other.....		xxx	277	xxx	
3433652	Range boilers, expansion tanks (including basement tanks) and hot water storage tanks: Reported in Census of Manufactures.....	Units.....	(NA)	9,462	442,299	116,616
	Reported on Annual Form MA34N.....	..do.....	322,722	9,430	(NA)	(NA)
3433654	Mechanical stokers (all classes).....		xxx	9,328	xxx	8,312
	Number of mechanical stokers as reported on Annual Form MA35K.....	Units.....	16,005	(NA)	16,290	(NA)
	Class 1 (residential).....	..do.....	12,780	(NA)	11,772	(NA)
	Class 2 (small apartment house and small commercial).....	..do.....	964	(NA)	1,444	(NA)
	Class 3 (large apartment house and medium sized commercial).....	..do.....	1,346	(NA)	1,796	(NA)
	Class 4 (large commercial and small industrial).....	..do.....	679	(NA)	959	(NA)
	Class 5 (large industrial).....	..do.....	236	(NA)	319	(NA)
3433658	Parts for unit ventilators: Reported in Census of Manufactures.....		xxx	(9)	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	(10)	xxx	(10)
3433660	Unit ventilators: Reported in Census of Manufactures.....		xxx	29,903	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	28,879	xxx	*15,243
3433661	Tanks for water heaters (sold separately).....	Units.....	779,429	15,413	604,532	10,739
3433671	Incinerators, domestic (metal and nonportable).....	..do.....	49,077	3,564	(NA)	5,855

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3433---	Heating equipment (except electric)--Continued					
34336--	Other heating equipment, except electric, including parts--Continued					
3433673	Parts and attachments for warm air furnaces sold separately (except registers).....	.....	xxx	11,915	xxx	16,190
3433674	Parts and attachments for cast iron and steel heating boilers (sold separately).....	.....	xxx	11,037	xxx	9,062
3433683	Parts, attachments, and accessories for mechanical stokers (sold separately).....	.....	xxx	5,154	xxx	7,711
3433685	Parts and attachments for oil burners (sold separately).....	.....	xxx	9,403	xxx	13,685
3433698	Other heating equipment, except electric (including solar heaters and circulating fireplace heaters) and parts for heating equipment, except electric (sold separately).....	.....	xxx	31,430	xxx	50,445
3433600	Other heating equipment, nsk.....	.....	xxx	20,390	xxx	15,608
3433000	Heating equipment, nsk.....	.....	xxx	35,715	...	...

\*Revised.

NA Not available.

<sup>1</sup>The quantity data for plumbing fixtures were obtained from Census Quarterly Survey M34E. In this survey it is necessary to combine certain metal fixtures with fixtures made of other materials such as vitreous china, concrete, etc. Accordingly, the quantity data do not relate exactly to the value figures shown for enameled and cast iron plumbing fixtures.

<sup>2</sup>Differs from the value of shipments of metal plumbing fixtures reported in the Census Quarterly Survey due to revisions reported in the Census, fiscal year reports in the Census of Manufacturers and to differing methods of reporting values in the two surveys.

<sup>3</sup>Includes vitreous china fixtures.

<sup>4</sup>Commercial and industrial burners are those with consumption rates of 6 gallons per hour or more.

<sup>5</sup>Range type oil burners, 3433171, are included with oil burners, nsk, 3433100, for 1954.

<sup>6</sup>Cast iron gravity air-flow furnaces are included with steel gravity air-flow furnaces for same type of fuel.

<sup>7</sup>1954 data for wood (sheet metal airtight type) are included with "All other coal and wood."

<sup>8</sup>Represent boilers of 177 square feet of heating surface and over.

<sup>9</sup>Parts for unit heaters and unit ventilators codes 3433635 and 3433658 included with other heating equipment, except electric, and parts for other heating equipment, except electric, code 3433698 for 1958. For 1954 unit ventilators, and parts and attachments for unit heaters and ventilators are included with unit heaters, code 3433630.

<sup>10</sup>Quarterly Commodity Survey M35H included parts for unit ventilators, 3433658 with parts for unit heaters 3433635.

<sup>11</sup>Excludes hot water storage tanks.

<sup>12</sup>Includes miscellaneous cooking equipment (except electric) such as barbecuers, grills, braziers, etc., for outdoor cooking and parts for cooking equipment (except electric) sold separately.

Table 6B.—Shipments of Vitreous and Semivitreous Plumbing Fixtures, United States Totals: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (units)	Value (\$1,000)	Quantity (units)	Value (\$1,000)
3261011	Vitreous and semivitreous (earthenware) plumbing fixtures:				
	Reported in the Census of Manufactures.....	xxx	119,226	xxx	111,729
	Reported on quarterly Form M34E <sup>1</sup> .....	xxx	2124,522	xxx	2107,259
	Drinking fountains.....	68,978	xxx	65,540	xxx
	Lavatories.....	2,179,706	xxx	1,698,412	xxx
	Water closet bowls:				
	Syphon jets.....	484,436	xxx	463,634	xxx
	Washdown.....	1,813,522	xxx	1,726,415	xxx
	Reverse trap.....	1,938,405	xxx	1,595,977	xxx
	Flush tanks.....	3,639,123	xxx	3,330,392	xxx
	Urinals.....	157,186	xxx	131,383	xxx

<sup>1</sup>The quantity data for vitreous china plumbing fixtures were obtained from the Census Quarterly Survey M34E as revised. No separate quantity data for vitreous and semivitreous sinks, laundry trays, and other plumbing fixtures are available since these items were combined, in the quarterly survey, with similar items made of other materials.

<sup>2</sup>Represents vitreous-china only. In addition, shipments of \$2,236 thousand and \$2,577 thousand were reported for 1958 and 1954, respectively, for plumbing fixtures made of glazed earthenware, concrete, and composition.



Table 6C.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and States	Value of shipments		Product class, region, and States	Value of shipments		Product class, region, and States	Value of shipments	
<b>Metal plumbing fixtures (34310):</b>			<b>Warm air furnaces (except floor and wall) except parts (34332)--Continued</b>	1958 <sup>1</sup>	1954	<b>Steel heating boilers (15 PSI and under) except parts (34335)--Continued</b>	1958 <sup>1</sup>	1954
United States, total:								
1958.....	180,006		West North Central.....	37,272	25,720	Middle Atlantic.....	39,304	31,505
1957.....	175,530		Minnesota.....	4,865	4,157	New York.....	6,632	8,845
1956.....	207,446		Iowa.....	18,843	14,833	New Jersey.....	3,636	6,321
1955.....	225,350		South.....	14,257	( <sup>2</sup> )	Pennsylvania.....	29,036	16,339
1954.....	207,236		Pacific.....	23,078	( <sup>2</sup> )	East North Central.....	17,337	( <sup>2</sup> )
1953.....	186,690		Oregon.....	1,512	( <sup>2</sup> )	All other regions.....	6,185	( <sup>2</sup> )
1952.....	176,136		California.....	21,428	( <sup>2</sup> )	California.....	4,295	( <sup>2</sup> )
1951.....	202,530							
1950.....	212,675		<b>Domestic heating stoves (except electric) except parts (34334):</b>	Value of shipments		<b>Other heating equipment, except electric, including parts for nonelectric heating equipment (34336):</b>	Value of shipments	
1949.....	159,127		United States, total:			United States, total.....	1958 <sup>1</sup>	
1947.....	126,912		1958.....		69,774			268,037
	1958 <sup>1</sup>	1954	1957.....		72,991	New England.....		5,352
Middle Atlantic.....	33,845	33,712	1956.....		80,906	Massachusetts.....		3,240
Pennsylvania.....	23,738	23,505	1955.....		75,659	Middle Atlantic.....		65,502
East North Central.....	81,322	90,198	1954.....		70,080	New York.....		16,357
Ohio.....	32,713	36,936	1953.....		84,649	New Jersey.....		9,280
Indiana.....	3,178	3,067	1952.....		89,157	Pennsylvania.....		39,865
Illinois.....	11,875	10,846	1951.....		91,305	East North Central.....		130,366
South.....	47,257	62,237	1950.....		87,345	Ohio.....		27,059
All other regions.....	17,582	21,089	1949.....		70,606	Indiana.....		10,386
California.....	16,300	( <sup>2</sup> )	1947.....		146,321	Illinois.....		49,993
				1958 <sup>1</sup>	1954	Michigan.....		12,282
<b>Warm air furnaces (except floor and wall) except parts (34332):</b>	Value of shipments		Middle Atlantic.....	1,112	( <sup>3</sup> )	Wisconsin.....		30,646
United States, total:			East North Central.....	31,499	35,549	West North Central.....		17,516
1958.....	232,530		Ohio.....	4,162	( <sup>2</sup> )	Minnesota.....		2,783
1957.....	214,417		Illinois.....	17,562	13,398	Iowa.....		3,745
1956.....	260,694		West North Central.....	7,086	6,690	Missouri.....		3,990
1955.....	265,865		South Atlantic.....	5,869	3,533	Kansas.....		6,434
1954.....	222,500		East South Central.....	16,922	13,994	South Atlantic.....		8,290
1953.....	197,275		Kentucky.....	3,908	4,353	Maryland.....		6,550
1952.....	187,987		Tennessee.....	7,699	6,560	East South Central.....		11,692
1951.....	180,848		Alabama.....	5,315	3,081	Tennessee.....		8,912
1950.....	205,484		Pacific.....	1,250	( <sup>2</sup> )	West South Central.....		6,308
1947.....	148,597					Texas.....		3,275
	1958 <sup>1</sup>	1954	<b>Steel heating boilers (15 PSI and under) except parts (34335):</b>	Value of shipments		West.....		23,011
Middle Atlantic.....	35,687	40,766	United States, total:			California.....		22,192
New York.....	16,261	23,031	1958.....		62,826			
New Jersey.....	13,371	( <sup>2</sup> )	1957.....		63,374			
Pennsylvania.....	6,055	( <sup>2</sup> )	1956.....		62,476			
East North Central.....	121,583	126,758	1955.....		56,325			
Ohio.....	65,556	74,487	1954.....		53,160			
Indiana.....	17,842	12,343	1953.....		42,625			
Illinois.....	15,040	11,691	1952.....		40,327			
Michigan.....	13,011	14,442	1951.....		44,438			
Wisconsin.....	10,134	13,795	1950.....		55,794			
			1947.....		43,534			

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 34310, New York, New Jersey, Michigan, Wisconsin, Maryland, Kentucky, and Tennessee; 34332, Missouri, Kansas, Delaware, Tennessee, Oklahoma, and Texas; 34334, Michigan, Wisconsin, Missouri, Kansas, Virginia, West Virginia, Georgia, and Texas; 34335, Indiana, Illinois, and Wisconsin; 34336, Kentucky, Alabama, and Oklahoma.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958

Code	Material	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)
INDUSTRY 3431—PLUMBING FIXTURES				
	Materials, parts, containers and supplies, total.....		xxx	73,354
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons.....	405	76
331212	Sheet and strip.....	do.....	69,166	11,028
331213	Plates.....	do.....	899	134
331215	All other carbon steel mill shapes and forms.....	do.....	143	48
331217				
331219				
331221				
331225	Alloy steel mill shapes and forms (including stainless).....	do.....	3,299	3,954
331231				
335119				
	Copper and copper-base alloy mill shapes and forms (except wire).....	1,000 lbs.....	3,545	1,583
	Aluminum and aluminum-base alloy mill shapes and forms:			
335257	Sheet, plate and foil.....	do.....	142	66
335259	All other mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	208	149
	Primary metals and scrap:			
331251	Pig iron.....	Short tons.....	175,339	11,502
	Scrap (purchased scrap only):			
941011	Iron and steel.....	do.....	112,430	4,649
	Castings <sup>1</sup> (rough and semifinished):			
332011	Iron (gray and malleable).....	do.....	(D)	(D)
336121	Copper and copper-base alloy.....	1,000 lbs.....	126	91
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	36,971
973000	Materials, nsk.....		xxx	3,103
INDUSTRY 3432—PLUMBING FITTINGS, BRASS GOODS				
	Materials, parts, containers and supplies, total.....		xxx	120,065
	Mill shapes and forms (except castings):			
	Carbon steel:			
331212	Sheet and strip.....	Short tons.....	2,471	471
331217	All other carbon steel mill shapes and forms.....	do.....	277	73
331219				
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	...	...
331225	All other alloy steel mill shapes and forms.....	do.....	49	46
331231	Stainless steel mill shapes and forms.....	do.....	783	679
335119	Copper and copper-base alloy mill shapes and forms (except wire).....	1,000 lbs.....	55,765	22,785
	Aluminum and aluminum-base alloy mill shapes and forms:			
335257	Sheet, plate and foil.....	do.....	101	46
335259	All other mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	434	203
	Primary metals and scrap:			
333111	Copper and copper-base alloy refinery shapes.....	Short tons.....	18,391	8,230
	Scrap (purchased scrap only):			
941011	Iron and steel.....	do.....	10,297	486
941021	Copper and copper-base alloy.....	do.....	14,702	6,257
	Castings <sup>2</sup> (rough and semifinished):			
332011	Iron (gray and malleable).....	do.....	1,888	475
336121	Copper and copper-base alloy.....	1,000 lbs.....	19,906	10,656
336111	Aluminum and aluminum-base alloy.....	do.....	121	117
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	57,900
973000	Materials, components, parts, containers and supplies consumed, nsk.....		xxx	11,641
INDUSTRY 3433—NONELECTRIC HEATING EQUIPMENT				
	Materials, parts, containers and supplies, total.....		xxx	412,955
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons.....	13,048	2,408
331212	Sheet and strip.....	do.....	424,993	63,890
331213	Plates.....	do.....	51,122	7,474
331215	Structural shapes.....	do.....	4,136	825
331217	Wire and wire products.....	do.....	1,519	420
331219	All other carbon steel mill shapes and forms.....	do.....	9,972	2,693
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	440	390
331225	All other alloy steel mill shapes and forms.....	do.....	3,701	1,719
331231	Stainless steel mill shapes and forms.....	do.....	2,119	2,845
	Copper and copper-base alloy:			
335111	Bare wire for electrical conduction only.....	1,000 lbs.....	708	420
363111	Insulated wire and cable.....	1,000 lbs. copper content.....	1,077	730
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.....	13,222	7,970
	Aluminum and aluminum-base alloy mill shapes and forms:			
335257	Sheet, plate and foil.....	do.....	12,523	6,048
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	4,720	2,317

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958—Continued

Code	Material	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)
	INDUSTRY 3433—NONELECTRIC HEATING EQUIPMENT—Continued			
	Primary metals and scrap:			
331251	Pig iron.....	Short tons.....	86,393	5,293
941011	Iron and steel scrap (purchased scrap only).....	....do.....	89,140	3,686
	Castings <sup>4</sup> (rough and semifinished):			
332011	Iron (gray and malleable).....	....do.....	43,630	13,680
332311	Steel.....	....do.....	7,634	2,499
336121	Copper and copper-base alloy.....	1,000 lbs.....	1,232	757
336111	Aluminum and aluminum-base alloy.....	....do.....	1,374	1,040
	Fractional horsepower electric motors (under 1 horsepower):			
361412	Timing motors, synchronous and subsynchronous.....	Number.....	429,920	5,030
361419	All other fractional horsepower electric motors.....	....do.....	<sup>5</sup> 1,806,316	20,191
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	....do.....	15,293	1,284
359111	Ball and roller bearings.....	.....	xxx	258
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	229,596
973000	Materials and components, parts, containers and supplies consumed, nsk.....	.....	xxx	<sup>3</sup> 29,492

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Data are not available for castings produced and consumed in the same establishment except for iron castings which totaled 211,467 short tons.

<sup>2</sup>No data are available for castings produced and consumed in the same establishment.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."

<sup>4</sup>Data are not available for castings produced and consumed in the same establishment except for aluminum and aluminum-base alloy castings which totaled 152 thousand pounds.

<sup>5</sup>In addition, 119,909 units were produced and consumed in the same establishment.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3431	PLUMBING FIXTURES (entire industry)....	63	12,432	67,848	10,058	19,179	50,754	118,555	95,207	214,872	8,928
	Establishments with:										
	90% or more specialization.....	44	6,965	36,972	5,694	10,392	29,407	68,226	52,597	120,479	6,824
3433	NONELECTRIC HEATING EQUIPMENT (entire industry).....	672	44,680	222,681	32,433	63,178	142,329	432,799	470,630	912,878	13,415
	Establishments with:										
	90% or more specialization.....	455	21,874	107,149	15,883	30,699	68,771	204,748	225,011	435,286	6,837
	75-89% specialization.....	55	6,373	32,327	4,247	8,331	18,803	69,882	73,168	145,272	1,522
34331	Oil burners, residential and industrial, except parts (primary product class of estab.).....	59	2,110	11,488	1,369	2,708	6,328	19,512	32,882	52,091	548
	Establishments with:										
	90% or more specialization....	36	351	1,840	243	452	1,090	2,828	9,237	12,432	( <sup>1</sup> )
	75-89% specialization.....	8	395	2,071	240	424	1,049	3,944	6,260	10,163	( <sup>1</sup> )
34332	Warm air furnaces (primary product class of estab.).....	128	11,929	60,842	8,100	15,639	36,081	124,162	156,479	283,353	3,027
	Establishments with:										
	90% or more specialization....	61	2,218	10,910	1,626	3,212	7,127	18,557	29,782	49,142	517
	75-89% specialization.....	25	2,614	13,457	1,788	3,487	8,866	29,140	41,840	71,469	555
34333	Cast iron heating boilers, radiators, and convectors (primary product class of estab.).....	229	9,668	46,167	7,674	14,635	33,712	87,169	84,923	174,384	4,232
	Establishments with:										
	90% or more specialization....	194	6,641	30,832	5,410	10,195	23,332	58,747	53,379	113,494	2,501
	75-89% specialization.....	7	162	774	123	240	496	1,515	1,081	2,661	( <sup>1</sup> )
34334	Domestic heating stoves (primary product class of estab.).....	40	3,315	14,202	2,620	5,076	9,211	26,140	26,682	55,703	919
	Establishments with:										
	90% or more specialization....	11	518	2,564	386	706	1,133	5,886	5,724	14,019	( <sup>1</sup> )
	75-89% specialization.....	7	607	2,229	494	943	1,558	2,873	3,500	6,632	( <sup>1</sup> )
34335	Steel heating boilers (primary product class of estab.).....	37	3,521	17,566	2,554	5,101	11,679	35,034	41,127	76,373	848
	Establishments with:										
	90% or more specialization....	14	757	3,938	584	1,227	2,666	7,190	8,822	15,943	( <sup>1</sup> )
	75-89% specialization.....	5	298	1,338	220	444	838	3,101	3,394	6,515	( <sup>1</sup> )
34336	Other heating equipment except electric (primary product class of estab.).....	128	13,691	70,694	9,728	19,314	43,866	138,401	125,523	265,317	3,712
	Establishments with:										
	90% or more specialization....	69	3,243	16,710	2,228	4,473	10,051	35,244	29,843	64,936	1,415
	75-89% specialization.....	13	966	4,847	690	1,226	2,579	10,354	6,808	17,684	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers and Man-hours Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation											
	Establishments				Employment in the specified operation							
	Total	Number of production workers			Total	Number of production workers						
		1-4	5-19	20 or more		1-4	5-19	20 or more				
INDUSTRY 3431—PLUMBING FIXTURES												
Ferrous foundry.....	12	...	...	12	946	...	...	946				
Nonferrous foundry (except die casting).....	2	...	...	2	(D)	...	...	(D)				
Forging.....	1	1	...	...	(D)	(D)	...	...				
Electroplating.....	1	...	1	...	(D)	...	(D)	...				
Heat treating and annealing.....	2	2	...	...	(D)	(D)	...	...				
Automatic screw machine department.....	1	...	...	1	(D)	...	...	(D)				
Machine shop.....	15	3	6	6	917	8	68	841				
Tool and die shop.....	5	2	3	...	27	(D)	(D)	...				
Foundry pattern shop.....	8	1	5	2	122	(D)	64	(D)				
Plate or structural fabrication.....	1	...	1	...	(D)	...	(D)	...				
Stamping, blanking, and forming.....	17	...	5	12	903	...	56	847				
Painting, lacquering, and enameling.....	25	6	5	14	1,454	16	40	1,398				
INDUSTRY 3432—PLUMBING FITTINGS, BRASS GOODS												
Nonferrous foundry (except die casting).....	45	2	13	30	1,909	(D)	(D)	1,757				
Forging.....	3	2	1	...	9	(D)	(D)	...				
Electroplating.....	52	20	21	11	949	55	184	710				
Galvanizing and other hot dip coating.....	1	1	...	...	(D)	(D)	...	...				
Heat treating and annealing.....	15	14	1	...	28	(D)	(D)	...				
Automatic screw machine department.....	27	14	10	3	232	28	101	103				
Machine shop.....	67	10	28	29	1,619	27	280	1,312				
Tool and die shop.....	45	30	13	2	257	75	(D)	(D)				
Foundry pattern shop.....	28	21	7	...	109	42	67	...				
Plate or structural fabrication.....	3	...	1	2	(D)	...	(D)	(D)				
Stamping, blanking, and forming.....	27	13	10	4	367	33	108	226				
Painting, lacquering, and enameling.....	11	8	2	1	75	12	(D)	(D)				
Distribution by number of production workers in the operation												
Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation (1,000)				
Total	Number of production workers			Total	Number of production workers			Total	Number of production workers			
	1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more	
INDUSTRY 3433—NONELECTRIC HEATING EQUIPMENT												
Total, all operations.....	xxx	xxx	xxx	xxx	26,685	xxx	xxx	xxx	51,321	xxx	xxx	xxx
Ferrous foundry.....	31	1	7	23	2,641	(D)	(D)	2,559	6,307	(D)	(D)	6,169
Nonferrous foundry (except die casting).....	7	4	2	1	137	9	(D)	(D)	224	10	(D)	(D)
Electroplating.....	11	7	3	1	152	21	(D)	(D)	254	41	(D)	(D)
Galvanizing and other hot dip coating.....	3	1	2	...	(D)	(D)	...	...	(D)	(D)	...	...
Heat treating and annealing.....	12	12	...	...	21	21	...	...	25	25	...	...
Automatic screw machine department.....	14	8	4	2	149	20	(D)	(D)	208	34	(D)	(D)
Machine shop.....	155	57	67	31	2,194	111	671	1,412	3,386	199	1,147	2,040
Tool and die shop.....	70	43	20	7	468	86	187	195	813	155	307	351
Foundry pattern shop.....	21	15	5	1	110	33	(D)	(D)	207	64	(D)	(D)
Plate or structural fabrication.....	61	20	28	13	1,133	43	270	820	1,834	67	451	1,316
Stamping, blanking, and forming.....	167	33	59	75	5,249	84	621	4,544	10,121	130	1,114	8,877
Painting, lacquering, and enameling.....	209	132	60	17	1,597	232	541	824	2,988	492	991	1,505
Plastics molding.....	3	2	1	...	(D)	(D)	...	...	(D)	(D)	...	...
Assembly of product.....	214	47	75	92	7,016	129	820	6,067	13,713	245	1,518	11,950
Shipping department (including packing and crating).....	217	118	73	26	1,852	252	724	876	3,630	466	1,375	1,789
All other operations.....	130	32	46	52	3,898	77	466	3,355	7,517	157	917	6,443

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry		
	3431	3432	3433
Total number of establishments in the industry.....	63	254	672
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	55	223	226
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	over 95	90-95	80-85

D Withheld to avoid disclosing operations of individual companies. Where appropriate such data are included in totals.





## Fabricated Structural Metal Products

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries—

### S.I.C. Code and Title (1957 Edition)

- 3441—Fabricated Structural Steel
- 3442—Metal Doors, Sash, Frames, Molding and Trim
- 3443—Fabricated Plate Work (Boiler Shops)
- 3444—Sheet Metal Work
- 3449—Architectural and Miscellaneous Metal Work

### 3441—Fabricated Structural Steel

This industry comprises establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, for bridges, buildings, and sections for ships, boats and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding and trim are classified in Industry 3442; and fabrication work done by construction contractors at the site of construction is classified in construction industries. For a detailed list of products of Industry 3441, refer to table 6A, product codes 3441121 to 3441381.

This industry as classified under the 1957 edition of the Standard Industrial Classification Manual differs from the definition previously used in that architectural, ornamental, and miscellaneous metal work which were formerly included in this industry are now included in Industry 3449, Miscellaneous Metal Work. Separate data are shown in table 1 for 1958 for both Industries 3441 and 3449 as defined in the 1957 SIC. Also data are shown for 1958 and earlier years for Industry 3441 as defined in the 1945 SIC edition.

Value of shipments and other receipts of the Fabricated Structural Steel Industry in 1958 totaled \$1,901 million. This included shipments of fabricated structural iron and steel (primary products), valued at \$1,456 million, shipments of other products (secondary products) valued at \$224 million, and miscellaneous receipts (mainly receipts for resales) of \$221 million.

This industry's shipments of fabricated structural iron and steel (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included miscellaneous metal building materials, \$68 million; and ornamental and structural metal work \$40 million.

While the primary products of the industry include fabricated structural iron and steel for buildings, bridges, and other fabricated structural iron and steel the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 70 percent of the total industry shipments are represented by plants specializing in fabricated structural iron and steel for buildings.

Industry 3441 shipments of fabricated structural iron and steel (primary products) in 1958 represented 91 percent (coverage ratio) of these products valued at \$1,602 million shipped by all industries. Other industries ship-

ping fabricated structural iron and steel (primary products) included Industry 3449, Miscellaneous Metal Work, \$36 million; and Industry 3441, Fabricated Structural Steel, \$25 million.

The coverage ratio for each of the primary product classes of Industry 3441 was over 90 percent with the exception of product class 34413, Other fabricated structural iron and steel, for which the coverage ratio was 82 percent.

As stated above, the definition of Industry 3441 was revised in the 1957 edition of the Standard Industrial Classification Manual and is now limited to establishments fabricating iron and steel and other metals for structural purposes. Establishments primarily engaged in manufacturing architectural, ornamental, and miscellaneous metal work, previously included in this industry, now comprise new Industry 3449. However, due to the lack of sufficient product detail on the reports for small establishments in these general fields, it was not possible to effect a precise distinction between these separate industry classifications. Accordingly, a large number of such small establishments have been classified in this industry which perhaps more appropriately should have been classified in Industry 3449, Miscellaneous Metal Work. The evidence of this stems largely from table 8 which shows 586 establishments (averaging fewer than 15 employees per establishment) which could only be classified as specializing in product class 34410, Fabricated structural steel, not specified by kind. Although the number of establishments involved is considerable, they account for less than 9 percent of the total employment for Industry 3441 and their effect on other data is similarly less consequential.

### 3442—Metal Doors, Sash, Frames, Molding and Trim

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding and trim. For a detailed list of products of Industry 3442, refer to table 6A, product codes 3442112 to 3442551.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. The data shown for Old Industry 2561 in table 1A shows the effect of the addition of metal window and door screens (except combination) and metal weatherstrip to this industry.

Value of shipments and other receipts of the Metal doors, sash and trim industry in 1958 totaled \$1,037 million. This included shipments of metal doors, sash, frames and molding and trim valued at \$887 million, shipments of other products valued at \$83 million, and miscellaneous receipts (mainly resales) of \$68 million.

This industry's shipments of metal doors, sash, frames and molding and trim in 1958 represented 91 percent of its



total products shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted partly of miscellaneous metal building materials, \$22 million; and sheet metal roofing and siding and drainage equipment, \$8 million.

While the primary products of the industry include metal doors, sash, frames, and molding and trim the degree to which plants specialize in these products is indicated in table 8. Approximately 33 percent of the total industry shipments are represented by plants specializing in metal window sash and frames (except storm sash); and 25 percent in metal combination screen and storm sash and doors.

Industry 3442 shipments of metal doors, sash, frames and molding and trim (primary products) in 1958 represented 93 percent of these products valued at \$952 million shipped by all industries.

#### 3443--Fabricated Plate Work (Boiler Shops)

This industry comprises establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments and similar products by the process of cutting, forming and joining ferrous and nonferrous plates, shapes, bars, sheet, pipe mill products and tubing to custom or standard design for factory or field assembly. Establishments primarily engaged in manufacturing nonelectric heating apparatus other than power boilers are classified in Industry 3433 and household cooking apparatus in Industry 3631. For a detailed list of products of Industry 3443, refer to table 6A, product codes 3443111 to 3443659.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. The data shown for Old Industry 3569 in table 1A represent the change made to this industry as a result of the addition of product class 34431, heat exchangers and steam condensers, to this industry. In addition, septic tanks formerly classified in Industry 3431 (old SIC), Plumbing Fixtures and Fittings, are now included in this industry.

Value of shipments and other receipts of the Boiler Shops Products Industry in 1958 totaled \$1,670 million. This included shipments of fabricated plate work (boiler shops), valued at \$1,347 million, shipments of other products valued at \$168 million, and miscellaneous receipts (mainly resales) of \$154 million.

This industry's shipments of fabricated plate work in 1958 represented 89 percent of its total product shipments. Secondary products shipped by this industry in 1958 included fabricated structural iron and steel for buildings, \$15 million; culverts, flumes and irrigation pipe, \$9 million; and miscellaneous sheet metal work, \$10 million.

Industry 3443 shipments of fabricated plate work (boiler shops) in 1958 represented 83 percent of these products valued at \$1,614 million shipped by all industries.

The coverage ratio varies significantly for the primary products of Industry 3443. For each of the primary product classes of this industry the coverage ratio is between

75 and 90 percent, with the following exceptions: 94 percent for steel power boilers parts and attachments and 61 percent for heat exchangers and steam condensers.

#### 3444--Sheet Metal Work

This industry comprises establishments primarily engaged in manufacturing sheet metal work for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet-metal stovepipes, light tanks, etc. Establishments in the sheet-metal field are frequently engaged in activities which overlap the economic divisions of manufacturing, wholesale, service and construction, and some difficulty is experienced in distinguishing a sheet-metal manufacturing establishment from other sheet-metal wholesalers. Establishments performing manufacturing operations incidental to their installation or contracting business are excluded from the Census of Manufactures. Conversely, many of the plants included in Industry 3444, Sheet Metal Work, are engaged to a secondary extent in wholesaling or installing sheet-metal items. For a detailed list of products of Industry 3444, refer to table 6A, product codes 3444111 to 3444398.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Sheet Metal Work Industry in 1958 totaled \$1,078 million. This included shipments of sheet metal work valued at \$827 million, shipments of other products valued at \$112 million, and miscellaneous receipts (mainly resales) of \$139 million.

This industry's shipments of sheet metal work in 1958 represented 88 percent of its total product shipments. The industry specialization ratio in 1954 was 81 percent.

Industry 3444 shipments of sheet metal work in 1958 represented 82 percent of these products valued at \$1,008 million shipped by all industries. In 1954, the coverage ratio was 80 percent. Other industries shipping sheet metal work included Industry 3442, Metal Doors, Sash and Trim, \$13 million; and Industry 3433, Nonelectric Heating Equipment, \$13 million. These shipments data do not take into account the volume of sheet metal work performed by nonmanufacturing establishments, for example, the production of heating and ventilating ducts by plumbing and heating contractors, the production of skylights by roofing contractors, etc.

The coverage ratio varies significantly for the primary products of Industry 3444. For each of the primary product classes of this industry the coverage ratio approximates 85 percent except for sheet metal roofing, siding and drainage equipment for which the ratio is 63 percent.

#### 3449--Architectural and Miscellaneous Metal Work

This industry comprises establishments primarily engaged in manufacturing architectural and miscellaneous work of ferrous and nonferrous metals, such as stairs and staircases, open steel flooring (grating), fire escapes, grilles, railings, fences and posts. For a detailed list of products of Industry 3449, refer to table 6A, product codes 3449111 to 3449371.



This industry as classified under the 1957 edition of the Standard Industrial Classification Manual represents a new industry which was previously included in Industry 3441, Structural and Ornamental Work. Separate data are shown in table 1 for 1958 for both Industries 3441 and 3449 as defined in the 1957 SIC edition. Also, data are shown for 1958 and earlier years for Industry 3441 as defined in the 1945 SIC edition.

Value of shipments and other receipts of the Miscellaneous Metal Work, N.E.C., Industry in 1958 totaled \$917 million. This included shipments of architectural and miscellaneous metal work, valued at \$692 million, shipments of other products (secondary products) valued at \$103 million, and miscellaneous receipts (mainly resales) of \$122 million.

This industry's shipments of architectural and miscellaneous metal work in 1958 represented 87 percent of its total product shipments. Secondary products shipped by this industry in 1958 consisted mainly of fabricated structural iron and steel for buildings, \$24 million; and miscellaneous fabricated structural iron and steel, \$8 million.

While the primary products of the industry include architectural and miscellaneous metal work the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 44 percent of the

total industry shipments are represented by plants specializing in miscellaneous metal building materials; and 35 percent in ornamental and structural metal work.

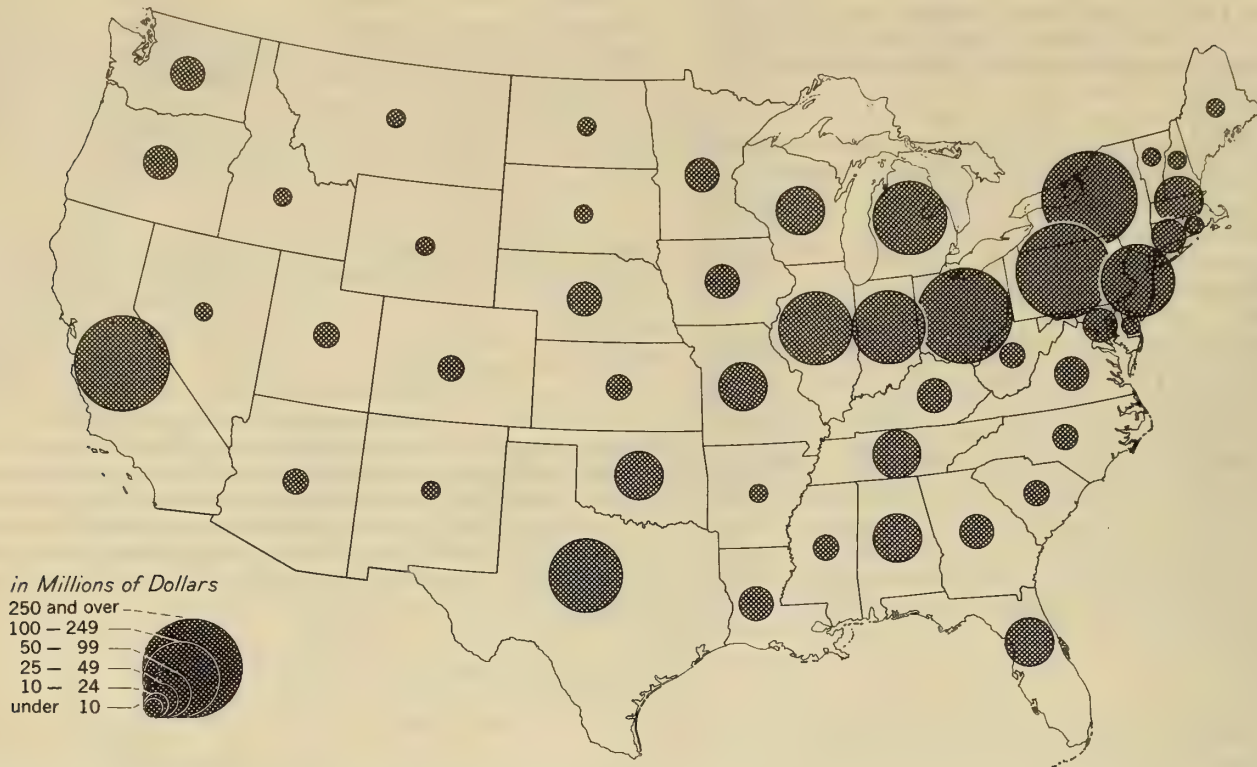
Industry 3449 shipments of architectural and miscellaneous metal work (primary products) in 1958 represented 74 percent of these products valued at \$936 million shipped by all industries. Other industries shipping architectural and miscellaneous metal work consisted mainly of Industry 3441, Fabricated Structural Steel, \$119 million; and Industry 3442, Metal Doors, Sash and Trim, \$30 million.

As stated above in the text for Industry 3441, due to the lack of sufficient product detail on the reports for small establishments, it was not possible to effect a precise distinction between establishments fabricating iron and steel and other metals for structural purposes and those manufacturing architectural, ornamental and miscellaneous metal work. Such establishments were classified in Industry 3441 but probably more appropriately should have been classified in this industry. Although the number of establishments involved is considerable (table 8, product class 34410) the total employment for such establishments totals less than 8,000 employees. The effect of this classification is more significant in this industry than in Industry 3441, which represents a substantially larger industry.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

**FABRICATED STRUCTURAL METAL PRODUCTS: SIC 344**

Value Added by Manufacture by State: 1958



Includes Industries 3441, 3442, 3443, 3444 and 3449. See Table 2.

Bureau of the Census M-58-D344



## FABRICATED STRUCTURAL METAL PRODUCTS

34C-5

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3441	Fabricated structural steel:														
	1958.....	1,793	1,861	780	91,252	502,697	68,009	135,764	332,691	821,626	1,017,689	1,901,106	36,789	87	91
3449	Miscellaneous metal work, nec:														
	1958.....	1,532	1,591	397	42,122	224,804	30,856	61,990	142,607	401,076	516,554	917,151	15,903	87	74
Old SIC 3441	Structural and ornamental work:														
	1958 <sup>a</sup> .....	(NA)	3,452	1,177	133,374	727,501	98,865	197,754	475,298	1,222,702	1,534,243	2,818,257	52,692	(NA)	(NA)
	1957 <sup>b</sup> .....	(NA)	(NA)	(NA)	137,259	712,628	102,517	208,398	474,166	1,386,167	1,334,136	2,597,850	50,063	90	89
	1956 <sup>b</sup> .....	(NA)	(NA)	(NA)	125,701	621,979	94,767	193,157	411,287	1,168,494	1,210,151	2,285,161	45,368	(NA)	(NA)
	1955 <sup>b</sup> .....	(NA)	(NA)	(NA)	118,216	550,619	88,764	179,824	362,251	960,150	1,006,087	1,897,484	36,588	(NA)	(NA)
	1954.....	2,829	2,917	969	116,274	527,386	88,068	179,901	352,662	930,502	900,189	1,809,971	37,768	89	88
	1953 <sup>b</sup> .....	(NA)	(NA)	(NA)	119,454	545,282	91,626	193,422	378,812	924,262	960,546	1,884,808	(NA)	(NA)	(NA)
	1952 <sup>b</sup> .....	(NA)	(NA)	(NA)	100,884	449,873	76,227	157,900	301,402	814,186	786,205	1,600,391	(NA)	(NA)	(NA)
	1951 <sup>b</sup> .....	(NA)	(NA)	(NA)	94,446	406,743	72,040	152,201	273,462	733,015	818,579	1,551,594	(NA)	(NA)	(NA)
	1950 <sup>b</sup> .....	(NA)	(NA)	(NA)	90,857	343,946	69,846	142,403	227,932	710,763	611,573	1,322,336	(NA)	(NA)	(NA)
	1949 <sup>b</sup> .....	(NA)	(NA)	(NA)	84,283	295,787	66,930	137,797	205,803	518,638	523,235	1,041,873	(NA)	(NA)	(NA)
	1947.....	1,600	1,665	(NA)	79,077	246,766	63,786	135,948	178,470	435,952	419,149	855,101	21,850	86	88
	1937 <sup>10</sup> .....	(NA)	1,171	(NA)	(NA)	(NA)	36,776	(NA)	49,294	116,925	175,785	292,710	(NA)	(NA)	(NA)
	1937.....	(NA)	1,132	(NA)	47,467	74,160	38,814	(NA)	53,898	123,083	169,673	292,756	(NA)	(NA)	(NA)
	1935.....	(NA)	1,111	(NA)	34,818	42,690	27,243	(NA)	28,225	66,674	94,088	160,762	(NA)	(NA)	(NA)
	1933.....	(NA)	962	(NA)	26,547	26,284	21,377	(NA)	18,624	44,443	63,169	107,612	(NA)	(NA)	(NA)
	1931.....	(NA)	1,302	(NA)	(NA)	(NA)	37,510	(NA)	47,875	106,384	131,649	238,033	(NA)	(NA)	(NA)
	1929.....	(NA)	1,482	(NA)	68,605	126,867	54,947	(NA)	87,786	232,341	244,696	477,037	(NA)	(NA)	(NA)
	1927.....	(NA)	1,284	(NA)	65,124	120,238	52,392	(NA)	84,578	196,930	243,446	440,376	(NA)	(NA)	(NA)
	1925.....	(NA)	1,136	(NA)	59,983	107,862	48,341	(NA)	77,411	183,345	237,653	420,998	(NA)	(NA)	(NA)
	1923.....	(NA)	1,056	(NA)	63,030	109,912	51,591	(NA)	80,833	180,630	225,487	406,117	(NA)	(NA)	(NA)
	1921.....	(NA)	1,021	(NA)	42,068	70,008	32,897	(NA)	47,455	99,074	151,011	250,085	(NA)	(NA)	(NA)
	1919.....	(NA)	1,146	(NA)	53,484	83,030	43,962	(NA)	59,920	126,161	168,801	294,962	(NA)	(NA)	(NA)
	1914.....	(NA)	1,235	(NA)	56,134	45,639	47,167	(NA)	33,429	71,756	87,622	159,378	(NA)	(NA)	(NA)
	1909.....	(NA)	1,089	(NA)	(NA)	(NA)	40,234	(NA)	26,422	56,582	76,659	133,241	(NA)	(NA)	(NA)
	1904.....	(NA)	775	(NA)	39,442	25,560	34,276	(NA)	19,760	43,493	47,452	90,945	(NA)	(NA)	(NA)
	1899.....	(NA)	697	(NA)	27,069	15,995	24,903	(NA)	13,589	28,874	38,053	66,927	(NA)	(NA)	(NA)
3442	Metal doors, sash and trim:														
	1958 (new SIC).....	1,468	1,546	560	57,897	273,219	42,433	83,849	171,756	469,050	570,782	1,037,371	18,055	91	93
	1958 <sup>11</sup> (old SIC)....	(NA)	1,440	516	54,353	257,100	39,747	78,672	161,929	437,857	533,296	969,425	17,096	92	93
	1954.....	1,086	1,106	386	43,284	184,174	33,028	66,490	125,317	342,845	303,545	638,501	22,097	87	89
	1953 <sup>b</sup> .....	(NA)	(NA)	(NA)	37,160	162,841	28,345	58,846	113,850	271,831	249,085	520,916	(NA)	(NA)	(NA)
	1952 <sup>b</sup> .....	(NA)	(NA)	(NA)	30,540	129,372	23,845	48,830	89,688	227,498	179,091	406,589	(NA)	(NA)	(NA)
	1951 <sup>b</sup> .....	(NA)	(NA)	(NA)	30,455	125,514	23,961	48,968	85,133	251,072	192,329	443,401	(NA)	(NA)	(NA)
	1950 <sup>b</sup> .....	(NA)	(NA)	(NA)	25,036	95,747	19,829	42,348	65,850	181,937	149,931	331,868	(NA)	(NA)	(NA)
	1949 <sup>b</sup> .....	(NA)	(NA)	(NA)	19,233	70,171	14,720	31,515	49,385	131,457	96,826	231,043	(NA)	(NA)	(NA)
	1947 <sup>12</sup> .....	(NA)	364	(NA)	23,336	72,176	19,100	36,630	53,630	129,366	103,402	232,768	6,668	84	87
	1939 <sup>10</sup> .....	(NA)	188	(NA)	(NA)	(NA)	7,387	(NA)	10,054	27,425	17,663	45,088	(NA)	(NA)	(NA)
	1937.....	(NA)	154	(NA)	10,273	15,762	8,408	(NA)	11,879	29,862	20,053	49,915	(NA)	(NA)	(NA)
	1935.....	(NA)	134	(NA)	5,985	7,769	4,533	(NA)	5,093	12,456	10,284	22,740	(NA)	(NA)	(NA)
	1933.....	(NA)	125	(NA)	4,544	4,642	3,572	(NA)	3,123	7,424	5,953	13,377	(NA)	(NA)	(NA)
	1931.....	(NA)	139	(NA)	(NA)	(NA)	6,816	(NA)	8,898	21,036	14,572	35,608	(NA)	(NA)	(NA)
	1929.....	(NA)	148	(NA)	11,916	24,265	9,557	(NA)	17,065	41,982	30,178	72,160	(NA)	(NA)	(NA)
	1927.....	(NA)	117	(NA)	10,080	21,618	8,050	(NA)	15,564	39,678	25,602	65,280	(NA)	(NA)	(NA)
	1925.....	(NA)	92	(NA)	8,357	17,350	6,791	(NA)	12,899	28,450	21,628	50,078	(NA)	(NA)	(NA)
	1923.....	(NA)	37	(NA)	2,972	5,786	2,429	(NA)	4,333	9,763	5,604	15,367	(NA)	(NA)	(NA)
	1921.....	(NA)	45	(NA)	2,252	4,140	1,782	(NA)	2,881	8,178	4,289	12,467	(NA)	(NA)	(NA)
	1919.....	(NA)	57	(NA)	2,638	3,988	2,077	(NA)	2,730	6,299	4,578	10,877	(NA)	(NA)	(NA)
	1914.....	(NA)	43	(NA)	2,373	2,085	1,985	(NA)	1,538	3,188	1,996	5,184	(NA)	(NA)	(NA)
	1909.....	(NA)	29	(NA)	1,798	1,098	1,601	(NA)	874	1,723	1,283	3,006	(NA)	(NA)	(NA)
	1904.....	(NA)	24	(NA)	792	525	699	(NA)	407	875	602	1,477	(NA)	(NA)	(NA)
	1899.....	(NA)	13	(NA)	137	105	117	(NA)	86	204	116	320	(NA)	(NA)	(NA)
3443	Boiler shop products:														
	1958 (new SIC).....	1,180	1,252	557	90,551	497,146	64,658	127,164	323,238	754,972	878,425	1,670,007	45,043	89	83
	1958 <sup>11</sup> (old SIC)....	(NA)	1,189	516	81,501	444,715	58,921	115,735	292,055	682,298	789,439	1,500,875	40,740	88	85
	1957 <sup>b</sup> .....	(NA)	(NA)	(NA)	86,777	453,257	65,927	133,442	314,119	678,470	784,080	1,420,999	39,920	85	85
	1956 <sup>b</sup> .....	(NA)	(NA)	(NA)	76,112	382,673	58,002	116,737	262,082	659,992	614,313	1,219,750	37,047	(NA)	(NA)
	1955 <sup>b</sup> .....	(NA)	(NA)	(NA)	69,758	326,567	52,872	105,646	223,076	476,488	511,080	983,639	24,799	(NA)	(NA)
	1954.....	934	977	481	74,373	342,069	57,217	115,994	239,967	568,146	555,102	1,133,670	23,561	82	81
	1953 <sup>b</sup> .....	(NA)	(NA)	(NA)	72,668	324,486	57,429	118,158	235,502	542,801	576,422	1,119,223	(NA)	(NA)	(NA)
	1952 <sup>b</sup> .....	(NA)	(NA)	(NA)	69,996	303,834	54,025	114,473	214,036	510,735	509,143	1,019,878	(NA)	(NA)	(NA)
	1951 <sup>b</sup> .....	(NA)	(NA)	(NA)	64,808	269,249	49,888	107,642	190,247	449,885	466,153	916,038	(NA)	(NA)	(NA)
	1950 <sup>b</sup> .....	(NA)	(NA)	(NA)	63,407	226,567	49,086	101,591	159,953	363,368	381,474	744,842	(NA)	(NA)	(NA)
	1949 <sup>b</sup> .....	(NA)	(NA)	(NA)	61,112	223,472	46,627	97,426	147,034	359,807	255,370	615,177	(NA)	(NA)	(NA)
	1947.....	783	812	437	68,232	207,118	54,185	114,795	251,698	351,139	335,548	686,687	21,908	80	80
	1939.....	(NA)	478	(NA)	(NA)	(NA)	20,517	(NA)	27,552	77,891	75,380	153,271	(NA)	(NA)	(NA)
	1937.....	(NA)	453	(NA)	29,911	45,910	24,485	(NA)	33,842	82,301	82,979	165,280	(NA)	(NA)	(NA)
	1935.....	(NA)	413	(NA)	16,779	21,930	13,290	(NA)	14,770	36,572	36,598	73,170	(NA)	(NA)	(NA)
	1933 <sup>13</sup> .....	(NA)	292	(NA)	12,138	12,772	9,805	(NA)	9,094	22,385	23,481	45,866	(NA)	(NA)	(NA)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3444 (old SIC 3444)	Sheet metal work:														
	1958.....	3,075	3,159	699	58,800	309,060	44,587	86,550	211,613	516,136	569,540	1,077,811	22,339	88	82
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	51,954	263,685	39,341	76,645	174,467	484,230	429,315	900,579	16,802	85	80
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	53,877	262,019	41,221	81,719	177,158	475,850	430,071	886,885	21,493	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	52,111	243,379	40,298	79,745	166,905	443,341	412,743	825,968	24,600	(NA)	(NA)
	1954.....	2,363	2,421	550	50,190	227,272	38,597	77,639	155,971	393,606	416,157	812,238	18,770	81	80
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	43,119	196,667	33,424	(NA)	138,347	347,607	305,737	653,344	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	58,526	242,703	47,945	(NA)	180,754	413,828	324,060	737,888	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	55,163	213,382	44,949	(NA)	158,552	379,997	335,346	715,343	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	50,248	176,663	40,536	(NA)	128,042	300,731	314,503	615,234	(NA)	(NA)	(NA)
	1947.....	1,665	1,706	(NA)	42,375	131,739	34,897	(NA)	99,460	224,960	195,565	420,525	(NA)	83	82
	1939.....	(NA)	1,262	(NA)	24,740	36,727	18,749	(NA)	23,079	66,360	70,981	137,341	(NA)	(NA)	(NA)
	1937.....	(NA)	1,392	(NA)	27,606	40,116	22,973	(NA)	29,263	73,161	85,935	159,096	(NA)	(NA)	(NA)
	1935.....	(NA)	1,400	(NA)	21,844	28,702	17,369	(NA)	19,551	51,210	58,123	109,333	(NA)	(NA)	(NA)
	1933.....	(NA)	1,229	(NA)	16,095	16,938	13,050	(NA)	12,658	33,344	35,463	68,807	(NA)	(NA)	(NA)
	1931.....	(NA)	1,762	(NA)	(NA)	(NA)	19,365	(NA)	25,158	60,101	56,342	116,443	(NA)	(NA)	(NA)
	1929 <sup>14</sup> .....	(NA)	2,161	(NA)	35,547	61,668	28,593	(NA)	43,255	109,837	112,648	222,485	(NA)	(NA)	(NA)
	1927.....	(NA)	1,981	(NA)	30,442	53,253	24,527	(NA)	38,668	92,743	98,386	191,129	(NA)	(NA)	(NA)
	1925.....	(NA)	2,107	(NA)	30,655	50,968	24,996	(NA)	37,825	90,963	84,080	175,043	(NA)	(NA)	(NA)
	1923.....	(NA)	2,524	(NA)	34,730	55,945	28,852	(NA)	42,446	95,401	93,507	188,908	(NA)	(NA)	(NA)
	1921.....	(NA)	3,105	(NA)	50,625	48,213	25,172	(NA)	36,562	72,880	75,896	148,776	(NA)	(NA)	(NA)
	1919.....	(NA)	4,796	(NA)	33,503	44,876	27,640	(NA)	33,867	79,415	80,899	160,314	(NA)	(NA)	(NA)
	1914.....	(NA)	4,527	(NA)	33,715	26,568	28,714	(NA)	20,518	44,717	50,174	94,891	(NA)	(NA)	(NA)
	1909.....	(NA)	3,671	(NA)	(NA)	(NA)	28,448	(NA)	19,368	42,455	46,933	98,388	(NA)	(NA)	(NA)
	1904 <sup>15</sup> .....	(NA)	1,989	(NA)	(NA)	(NA)	22,556	(NA)	13,766	28,934	27,148	56,082	(NA)	(NA)	(NA)

NA Not available. <sup>12</sup>Revised.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3441 (old SIC)	909,782	3443 (old SIC)	578,568
3442 (old SIC)	334,956	3444	380,327

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3441	910,654	588,461	3444	483,958	358,151
3442	538,060	(NA)	3449	449,993	311,728
3443	812,470	(NA)			

Footnotes continued on next page.



# FABRICATED STRUCTURAL METAL PRODUCTS

34C-7

Footnotes for table 1-54C

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3441	1,766,685	1,190,953	3444	974,515	738,481
3442	994,907	(NA)	3449	830,377	619,018
3443	1,594,265	(NA)			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The two industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$112.2 million for "Structural and ornamental work" and \$29.2 million for "Metal doors, sash and trim."

<sup>11</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>12</sup>The figures for 1947 have been revised for comparability with the figures for 1951-1958 by including data for establishments primarily engaged in the manufacture of "Metal storm doors and sash." Value added by manufacture for 1947 on a basis comparable with 1939, 1949 and 1950, which have not been revised, was \$117.6 million.

<sup>13</sup>"Boiler shop products" was formerly a part of the discontinued industry "Foundry and machine-shop products, nec." Separate figures for earlier years are, therefore, not available.

<sup>14</sup>Figures for 1929 and earlier years do not include data for sheetmetal dairymen's supplies, classified for these years in the discontinued industry "Dairymen's supplies, etc."

<sup>15</sup>"Sheetmetal work" was formerly a part of the discontinued industry "Tinsmithing, coppersmithing, and sheet iron working." Separate figures for 1899 are, therefore, not available.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3442-Metal doors, sash and trim.....	1,546	560	57,897	469,050	xxx	xxx	xxx	xxx
Old Industry 2561-Window and door screens.....	100	42	3,403	29,972	270	54	4,628	37,803
Old Industry 3442-Metal doors, sash, and trim.....	1,440	516	54,353	437,859	1,440	516	54,353	437,859
All other industries <sup>1</sup> .....	6	2	141	1,219	xxx	xxx	xxx	xxx
New Industry 3443-Boiler shop products.....	1,252	557	90,551	754,972	xxx	xxx	xxx	xxx
Old Industry 3441-Structural and ornamental products.....	14	5	537	3,692	(2)	(2)	(2)	(2)
Old Industry 3443-Boiler shop products.....	1,189	516	81,501	682,298	1,189	516	81,501	682,298
Old Industry 3569-General industrial machinery, nec.....	41	33	8,360	66,976	626	243	36,643	350,273
All other industries <sup>1</sup> .....	8	3	153	2,006	xxx	xxx	xxx	xxx

<sup>1</sup>Revised.

<sup>2</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product classification to conform to the new SIC and classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>3</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of the adjusted value added.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3441	Fabricated structural steel, total.	1,861	780	91,252	502,697	68,009	135,764	332,691	821,626	1,901,106	36,789	(2)	(2)	(2)
	New England.....	97	29	2,982	17,433	2,090	4,413	10,258	28,593	65,654	1,177	(2)	(2)	(2)
	Massachusetts....	50	13	1,292	7,499	911	1,788	4,450	11,812	25,507	(3)	(2)	(2)	(2)
	Connecticut.....	28	7	861	5,009	620	1,330	3,007	8,808	19,146	(3)	(2)	(2)	(2)
	Middle Atlantic...	456	177	27,312	154,913	21,002	40,191	107,987	260,973	556,238	11,126	(2)	(2)	(2)
	New York.....	224	78	7,522	45,764	5,727	11,213	31,981	77,809	150,413	3,961	(2)	(2)	(2)
	New Jersey.....	89	29	3,309	19,646	2,553	4,949	13,125	39,860	80,214	1,588	(2)	(2)	(2)
	Pennsylvania....	143	70	16,481	89,503	12,722	24,029	62,881	143,304	325,611	5,577	(2)	(2)	(2)
	East North Central	414	172	20,886	122,355	15,011	30,588	77,526	189,899	435,977	5,933	(2)	(2)	(2)
	Ohio.....	107	45	4,737	27,369	3,506	7,257	17,297	43,771	93,854	(D)	(2)	(2)	(2)
	Indiana.....	39	20	4,551	24,927	3,495	7,007	17,298	29,575	95,552	1,017	(2)	(2)	(2)
	Illinois.....	130	58	5,492	32,953	4,051	8,154	21,569	59,248	121,129	2,113	(2)	(2)	(2)
	Michigan.....	98	31	3,895	23,946	2,512	5,152	13,836	36,972	84,235	(D)	(2)	(2)	(2)
	Wisconsin.....	40	18	2,211	13,160	1,447	3,018	7,526	20,333	41,207	764	(2)	(2)	(2)
	West North Central	135	62	6,287	34,659	4,601	9,532	21,876	61,909	156,230	3,124	(2)	(2)	(2)
	Minnesota.....	27	11	1,532	8,994	1,125	2,312	5,844	14,887	34,837	1,036	(2)	(2)	(2)
	Iowa.....	30	10	912	4,764	707	1,412	3,235	8,742	27,621	654	(2)	(2)	(2)
	Missouri.....	39	19	1,624	9,337	1,179	2,532	5,827	19,976	42,864	832	(2)	(2)	(2)
	Kansas.....	21	13	1,223	6,488	887	1,804	3,966	10,427	26,301	(3)	(2)	(2)	(2)
	South Atlantic....	200	96	8,116	39,625	5,994	11,904	24,718	62,622	161,192	3,070	(2)	(2)	(2)
	Maryland.....	31	15	1,081	5,582	743	1,454	3,328	9,055	20,691	(3)	(2)	(2)	(2)
	Virginia.....	r 36	r 19	r 2,645	r 13,434	r 2,001	r 3,885	r 8,602	r 17,679	r 48,000	r 1,031	(2)	(2)	(2)
	West Virginia...	10	6	299	1,693	222	437	988	3,163	6,659	(3)	(2)	(2)	(2)
	North Carolina..	22	14	1,057	5,597	698	1,503	3,111	7,847	23,653	(3)	(2)	(2)	(2)
	South Carolina..	13	9	840	3,842	599	1,304	2,149	9,380	22,042	(3)	(2)	(2)	(2)
	Georgia.....	22	12	615	2,686	469	873	1,696	3,739	9,943	(3)	(2)	(2)	(2)
	Florida.....	60	18	1,471	6,281	1,190	2,315	4,548	11,037	28,065	659	(2)	(2)	(2)
	East South Central	91	42	4,731	22,973	3,584	7,157	15,108	35,615	84,654	1,604	(2)	(2)	(2)
	Kentucky.....	10	3	171	905	130	297	550	1,972	3,156	(3)	(2)	(2)	(2)
	Tennessee.....	27	15	1,417	6,679	1,067	2,093	4,447	9,206	23,354	(3)	(2)	(2)	(2)
	Alabama.....	40	18	2,872	14,383	2,182	4,340	9,438	22,989	52,972	1,078	(2)	(2)	(2)
	Mississippi.....	14	6	271	1,006	205	427	673	1,448	5,172	(3)	(2)	(2)	(2)
	West South Central	166	74	8,623	40,412	6,509	13,566	25,869	66,519	181,120	5,650	(2)	(2)	(2)
	Arkansas.....	10	5	454	2,169	345	669	1,459	3,894	11,295	(3)	(2)	(2)	(2)
	Louisiana.....	27	13	1,027	5,136	829	1,704	3,621	8,690	21,129	(3)	(2)	(2)	(2)
	Oklahoma.....	25	12	2,348	12,111	1,617	3,385	6,626	20,298	53,688	3,259	(2)	(2)	(2)
	Texas.....	104	44	4,794	20,996	3,718	7,808	14,163	33,637	95,008	1,932	(2)	(2)	(2)
	Mountain.....	63	35	2,811	14,764	2,097	4,368	10,426	22,368	58,547	1,265	(2)	(2)	(2)
	New Mexico.....	7	3	180	649	152	256	455	1,310	3,929	(3)	(2)	(2)	(2)
	Arizona.....	13	6	793	4,419	580	1,392	3,539	6,336	16,359	(3)	(2)	(2)	(2)
	Utah.....	11	9	563	3,046	425	860	2,038	4,192	14,963	(3)	(2)	(2)	(2)
	Pacific.....	239	93	9,504	55,563	7,121	14,045	38,923	93,128	201,494	3,840	(2)	(2)	(2)
	Washington.....	42	15	1,502	8,419	1,184	2,281	6,181	13,476	27,587	(3)	(2)	(2)	(2)
	Oregon.....	22	11	881	4,169	696	1,328	3,068	9,023	15,137	(3)	(2)	(2)	(2)
	California.....	175	67	7,121	42,975	5,241	10,436	29,674	70,629	158,770	3,219	(2)	(2)	(2)
3442	Metal doors, sash, and trim, total.....	1,546	560	57,897	273,219	42,433	83,849	171,756	469,050	1,037,371	18,055	(2)	(2)	(2)
	New England.....	107	33	2,529	11,078	2,008	3,884	7,797	20,956	43,184	654	(2)	(2)	(2)
	New Hampshire...	7	3	238	1,077	186	383	736	1,870	4,209	(3)	(2)	(2)	(2)
	Massachusetts....	55	16	1,263	5,196	1,012	1,890	3,768	10,026	21,671	(D)	(2)	(2)	(2)
	Rhode Island....	15	3	295	1,263	242	470	848	2,445	5,019	(3)	(2)	(2)	(2)
	Connecticut.....	26	10	674	3,333	538	1,083	2,349	6,287	11,653	(3)	(2)	(2)	(2)
	Middle Atlantic...	396	158	14,749	68,296	11,185	22,238	44,487	113,905	249,752	4,180	(2)	(2)	(2)
	New York.....	206	92	7,382	34,582	5,497	10,914	22,435	60,830	121,444	1,539	(2)	(2)	(2)
	New Jersey.....	80	22	1,831	7,718	1,387	2,857	5,131	14,011	34,990	(3)	(2)	(2)	(2)
	Pennsylvania....	110	44	5,536	25,996	4,301	8,467	16,921	39,064	93,318	2,289	(2)	(2)	(2)
	East North Central	399	149	18,322	95,086	12,602	24,857	57,563	154,981	332,987	4,850	(2)	(2)	(2)
	Ohio.....	r 96	r 37	r 5,782	r 29,618	r 4,071	r 7,597	r 18,879	r 47,396	r 100,569	1,526	(2)	(2)	(2)
	Indiana.....	40	16	1,704	8,326	1,172	2,406	5,059	12,911	28,398	(3)	(2)	(2)	(2)
	Illinois.....	119	42	4,407	22,040	3,260	6,608	14,230	42,594	89,782	1,288	(2)	(2)	(2)
	Michigan.....	r 125	r 48	r 5,669	r 32,039	r 3,574	r 7,235	r 17,494	r 47,695	r 104,655	1,510	(2)	(2)	(2)
	Wisconsin.....	19	6	760	3,063	525	1,011	1,901	4,385	9,583	(3)	(2)	(2)	(2)
	West North Central	125	25	3,282	15,806	2,401	4,578	9,886	27,843	60,569	937	(2)	(2)	(2)
	Minnesota.....	29	4	456	2,070	343	638	1,298	3,425	7,304	(3)	(2)	(2)	(2)
	Missouri.....	43	13	2,097	10,547	1,570	3,040	6,961	17,014	35,136	(3)	(2)	(2)	(2)
	Kansas.....	22	5	283	1,329	142	249	484	2,685	6,218	(3)	(2)	(2)	(2)
	South Atlantic....	173	66	7,413	28,151	5,392	10,525	16,872	50,411	136,841	2,809	(2)	(2)	(2)
	Maryland.....	13	4	255	1,082	165	312	530	2,182	4,638	(3)	(2)	(2)	(2)
	Virginia.....	18	6	558	2,302	379	797	1,437	3,632	8,167	(3)	(2)	(2)	(2)
	South Carolina..	7	3	177	685	127	242	425	832	2,481	(3)	(2)	(2)	(2)
	Georgia.....	15	6	1,312	5,254	1,031	2,151	3,405	10,382	25,255	692	(2)	(2)	(2)
	Florida.....	97	46	4,925	18,208	3,549	6,757	10,627	32,402	93,508	1,836	(2)	(2)	(2)
	East South Central	58	22	2,385	9,801	1,934	4,000	6,704	19,835	42,991	731	(2)	(2)	(2)
	Kentucky.....	18	6	737	3,406	525	1,013	1,998	8,625	16,723	(3)	(2)	(2)	(2)
	Alabama.....	11	6	923	3,823	827	1,830	3,028	7,644	15,453	(3)	(2)	(2)	(2)

See footnotes at end of table.



## FABRICATED STRUCTURAL METAL PRODUCTS

34C-9

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Metal doors, sash, and trim—Continued													
	West South Central	76	34	3,156	12,569	2,510	5,074	8,450	23,183	51,406	1,545	(2)	(2)	(2)
	Arkansas.....	6	2	107	448	98	200	308	818	2,428	(D)	(2)	(2)	(2)
	Louisiana.....	8	2	451	1,854	356	786	1,291	4,015	7,266	(D)	(2)	(2)	(2)
	Oklahoma.....	10	2	631	3,047	476	1,066	1,935	6,266	10,650	(D)	(2)	(2)	(2)
	Texas.....	52	28	1,967	7,220	1,580	3,022	4,916	12,084	31,062	957	(2)	(2)	(2)
	Mountain.....	34	6	581	3,227	388	747	1,774	5,382	10,222	(3)	(2)	(2)	(2)
	Utah.....	7	2	149	668	96	183	422	1,779	3,121	(3)	(2)	(2)	(2)
	Pacific.....	178	67	5,480	29,205	4,013	7,946	18,223	52,554	109,419	2,146	(2)	(2)	(2)
	Washington.....	28	8	875	4,868	680	1,249	3,194	9,242	15,004	(3)	(2)	(2)	(2)
	Oregon.....	10	4	322	1,653	254	512	1,187	2,501	4,559	(3)	(2)	(2)	(2)
	California.....	140	55	4,283	22,684	3,079	6,185	13,842	40,811	89,856	1,790	(2)	(2)	(2)
3443	Boiler shop products, total....	1,252	557	90,551	497,146	64,658	127,164	323,238	754,972	1,670,007	45,043	(2)	(2)	(2)
	New England.....	73	25	2,699	15,093	1,892	3,690	8,751	22,962	42,968	2,792	(2)	(2)	(2)
	Massachusetts...	41	18	1,608	8,338	1,149	2,145	5,020	12,663	23,373	(D)	(2)	(2)	(2)
	Connecticut.....	19	5	848	5,479	553	1,150	2,824	8,619	15,194	(D)	(2)	(2)	(2)
	Middle Atlantic...	294	132	24,750	139,465	18,265	35,591	94,716	220,431	450,428	10,057	(2)	(2)	(2)
	New York.....	107	38	6,530	37,110	4,535	9,340	24,779	59,449	120,150	4,731	(2)	(2)	(2)
	New Jersey.....	69	23	2,859	16,124	2,096	4,294	10,668	24,770	48,646	692	(2)	(2)	(2)
	Pennsylvania....	118	71	15,361	86,231	11,634	21,957	59,269	136,212	281,632	4,634	(2)	(2)	(2)
	East North Central	316	137	21,972	126,907	14,491	28,935	75,452	190,660	427,178	14,952	(2)	(2)	(2)
	Ohio.....	94	43	10,544	60,464	6,518	13,237	33,978	92,029	210,001	(D)	(2)	(2)	(2)
	Indiana.....	29	12	3,233	18,857	2,097	4,156	11,497	34,650	71,068	1,795	(2)	(2)	(2)
	Illinois.....	82	40	3,474	20,613	2,494	4,822	12,627	27,895	63,893	1,016	(2)	(2)	(2)
	Michigan.....	64	20	1,526	8,534	1,131	2,319	5,615	12,542	31,019	(D)	(2)	(2)	(2)
	Wisconsin.....	47	22	3,195	18,430	2,251	4,401	11,735	23,544	51,197	2,770	(2)	(2)	(2)
	West North Central	80	32	4,704	24,163	3,480	6,798	17,040	36,446	82,313	2,147	(2)	(2)	(2)
	Minnesota.....	16	6	610	3,238	494	975	2,299	5,479	10,077	(3)	(2)	(2)	(2)
	Iowa.....	11	5	307	1,397	240	455	947	2,442	6,988	(3)	(2)	(2)	(2)
	Missouri.....	28	13	3,039	15,475	2,169	4,386	10,717	22,716	52,675	1,663	(2)	(2)	(2)
	Kansas.....	14	5	609	3,388	473	794	2,582	4,450	8,829	(3)	(2)	(2)	(2)
	South Atlantic....	100	45	5,081	24,696	3,553	7,261	15,726	32,704	80,105	1,678	(2)	(2)	(2)
	Delaware.....	7	3	492	2,726	342	744	1,870	5,018	13,129	(3)	(2)	(2)	(2)
	Maryland.....	16	8	517	2,482	380	734	1,566	3,616	8,201	(3)	(2)	(2)	(2)
	Virginia.....	11	6	1,446	8,022	630	1,432	3,176	6,774	14,640	858	(2)	(2)	(2)
	North Carolina...	19	8	996	4,316	845	1,655	3,544	6,609	19,438	(3)	(2)	(2)	(2)
	Georgia.....	19	10	1,199	5,164	1,025	2,083	4,186	7,270	16,546	(3)	(2)	(2)	(2)
	Florida.....	20	7	302	1,392	238	441	1,001	2,555	6,078	(3)	(2)	(2)	(2)
	East South Central	50	28	8,750	43,321	6,807	13,255	32,131	64,916	141,216	1,785	(2)	(2)	(2)
	Kentucky.....	17	8	746	3,502	567	1,103	2,401	6,035	11,846	(3)	(2)	(2)	(2)
	Alabama.....	16	9	1,215	7,336	1,071	2,256	6,348	10,819	29,062	543	(2)	(2)	(2)
	West South Central	129	71	9,127	45,028	6,417	13,389	28,101	70,112	181,232	4,014	(2)	(2)	(2)
	Arkansas.....	6	3	126	533	94	198	318	895	2,160	(3)	(2)	(2)	(2)
	Louisiana.....	12	7	1,541	7,994	1,092	2,331	4,692	9,511	27,014	510	(2)	(2)	(2)
	Oklahoma.....	21	11	2,092	11,198	1,264	2,660	5,834	20,707	44,455	873	(2)	(2)	(2)
	Texas.....	90	50	5,368	25,303	3,967	8,200	17,257	38,999	107,603	2,568	(2)	(2)	(2)
	Mountain.....	41	20	2,348	11,663	1,719	3,436	8,081	16,334	48,379	2,047	(2)	(2)	(2)
	Colorado.....	14	6	701	3,313	441	884	1,956	4,882	14,385	559	(2)	(2)	(2)
	Utah.....	10	7	1,166	5,846	931	1,877	4,531	7,418	23,838	1,195	(2)	(2)	(2)
	Pacific.....	169	67	11,120	66,810	8,034	14,809	43,240	100,407	216,188	5,571	(2)	(2)	(2)
	Washington.....	28	10	576	3,498	462	856	2,634	4,811	10,455	(3)	(2)	(2)	(2)
	Oregon.....	14	5	454	2,686	349	772	1,918	3,066	11,688	(3)	(2)	(2)	(2)
	California.....	127	52	10,090	60,626	7,223	13,181	38,688	92,530	194,045	5,041	(2)	(2)	(2)
3444	Sheet metal-work, total.....	3,159	699	58,800	309,060	44,587	86,550	211,613	516,136	1,077,811	22,339	50,190	380,327	42,375
	New England.....	240	50	3,600	18,447	2,858	5,519	13,213	28,378	52,153	927	2,407	14,771	2,172
	Massachusetts...	139	35	2,539	13,239	2,008	3,917	9,303	20,655	38,196	698	1,608	9,624	1,425
	Rhode Island....	20	1	121	636	105	188	520	1,019	1,704	(3)	180	1,082	259
	Connecticut.....	55	11	703	3,498	556	1,033	2,670	4,971	8,663	(3)	469	3,130	283
	Middle Atlantic...	697	177	13,672	73,752	10,678	20,615	52,717	114,569	215,210	4,345	12,669	98,574	11,254
	New York.....	295	77	5,490	29,934	4,527	8,750	22,742	45,144	75,149	1,940	4,875	35,142	5,205
	New Jersey.....	196	43	2,773	15,340	2,270	4,404	11,495	22,358	38,823	743	2,637	19,923	1,586
	Pennsylvania....	206	57	5,409	28,478	3,881	7,461	18,480	47,067	101,238	1,662	5,157	43,508	4,463
	East North Central	649	168	15,530	83,959	11,536	22,797	55,695	149,472	330,284	7,610	15,963	132,831	12,266
	Ohio.....	172	54	5,658	31,199	4,170	8,110	20,793	57,574	131,210	3,611	5,989	49,180	4,772
	Indiana.....	78	17	1,150	6,306	787	1,594	3,669	10,290	26,592	980	1,321	8,388	1,046
	Illinois.....	194	45	3,269	17,480	2,618	5,095	12,505	27,453	56,458	1,037	3,861	37,742	2,333
	Michigan.....	148	33	2,827	14,879	2,115	4,243	10,042	28,989	55,384	992	2,374	18,248	1,905
	Wisconsin.....	57	19	2,626	14,095	1,846	3,755	8,686	25,166	60,640	990	2,416	19,272	2,210

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2-General Statistics by Regions and States: 1958, 1954, and 1947-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Sheet metal-work--Continued....													
	West North Central	212	65	7,806	40,811	5,630	11,241	25,718	64,728	146,048	2,371	4,697	33,376	2,951
	Minnesota.....	49	17	1,081	5,977	825	1,649	3,805	9,220	21,190	(3)	786	6,243	1,010
	Iowa.....	36	8	857	4,464	709	1,431	3,373	8,806	18,486	521	596	5,362	641
	Missouri.....	78	23	4,178	22,339	2,908	5,647	13,488	29,593	68,976	823	2,423	15,507	912
	Nebraska.....	20	9	993	4,729	755	1,590	3,277	11,479	21,473	565	(4)	(4)	(4)
	Kansas.....	21	7	465	2,243	272	546	1,123	3,179	10,343	(3)	325	2,022	239
	South Atlantic....	366	74	5,498	24,506	4,084	7,709	15,930	41,070	98,113	1,958	4,338	26,582	4,472
	Maryland.....	46	10	915	4,822	604	1,131	2,576	8,127	20,169	(3)	942	6,816	841
	Dist. of Col....	5	2	132	641	90	158	441	1,051	1,897	(3)	(4)	(4)	(4)
	Virginia.....	30	11	532	2,247	447	869	1,682	3,823	7,881	(3)	337	2,041	229
	West Virginia....	16	2	454	2,217	366	645	1,763	3,062	8,215	(3)	976	5,786	(D)
	North Carolina..	47	11	669	2,441	525	970	1,666	5,135	11,945	(3)	(4)	(4)	(4)
	South Carolina..	34	1	170	526	140	241	435	762	1,740	(3)	172	795	186
	Georgia.....	57	12	1,024	4,636	603	1,182	2,371	7,450	21,576	592	689	3,208	468
	Florida.....	126	25	1,586	6,929	1,296	2,492	4,958	11,577	24,495	534	947	5,907	385
	East South Central	146	23	1,543	6,580	1,163	2,169	4,595	11,963	26,081	393	1,457	10,208	2,482
	Kentucky.....	31	10	574	2,823	394	703	1,836	3,846	9,271	(3)	481	3,915	1,824
	Tennessee.....	48	8	423	1,788	331	652	1,316	4,038	8,111	(3)	(4)	(4)	(4)
	Alabama.....	41	3	376	1,359	299	553	1,057	2,775	5,805	(3)	472	2,645	486
	Mississippi.....	26	2	170	610	139	261	386	1,304	2,894	(3)	(4)	(4)	(4)
	West South Central	285	23	2,974	12,898	2,334	4,370	9,209	20,640	44,193	1,450	2,376	15,248	1,349
	Arkansas.....	22	3	173	510	143	256	359	660	1,595	(3)	(4)	(4)	(4)
	Louisiana.....	54	2	356	1,362	293	532	997	2,564	5,183	(3)	367	2,445	416
	Oklahoma.....	47	5	371	1,643	278	521	1,207	3,017	6,649	(3)	(4)	(4)	(4)
	Texas.....	162	23	2,074	9,383	1,620	3,061	6,646	14,399	30,766	973	1,553	9,890	733
	Mountain.....	91	15	1,126	6,352	908	1,862	4,775	10,206	24,765	731	1,185	7,408	(D)
	Idaho.....	7	3	120	615	107	217	523	772	2,578	(3)	(4)	(4)	(4)
	Colorado.....	26	2	285	1,755	240	486	1,343	2,569	4,518	(3)	492	2,780	483
	New Mexico.....	9	1	148	732	126	308	547	1,634	3,528	(D)	41	261	(D)
	Arizona.....	13	1	173	1,071	136	268	811	1,358	4,100	(3)	242	1,462	(D)
	Utah.....	17	4	236	1,329	180	355	921	2,166	4,834	(3)	228	1,817	155
	Pacific.....	473	94	7,051	41,755	5,396	10,268	29,761	75,110	140,964	2,554	5,095	41,325	4,659
	Washington.....	49	8	777	5,003	627	1,181	3,809	7,580	15,470	(3)	507	3,556	471
	Oregon.....	40	11	860	5,119	646	1,184	3,688	7,945	18,130	(3)	455	3,988	459
	California.....	384	75	5,414	31,633	4,123	7,903	22,264	59,585	107,364	2,072	4,133	33,779	3,729
3449	Miscellaneous metalwork, nec, total.....	1,591	397	42,122	224,804	30,856	61,990	142,607	401,076	917,151	15,903	(2)	(2)	(2)
	New England.....	84	16	1,910	9,948	1,364	2,752	5,860	16,222	31,082	889	(2)	(2)	(2)
	Massachusetts....	45	12	1,247	6,651	884	1,772	3,706	10,569	21,028	578	(2)	(2)	(2)
	Connecticut.....	29	3	604	3,020	437	897	1,971	5,154	8,139	(D)	(2)	(2)	(2)
	Middle Atlantic...	444	81	7,593	43,731	5,845	11,701	30,176	76,076	157,937	2,324	(2)	(2)	(2)
	New York.....	182	33	2,641	15,163	2,086	4,257	10,436	24,081	42,419	(3)	(2)	(2)	(2)
	New Jersey.....	109	12	1,059	5,744	747	1,414	3,460	14,063	31,359	(3)	(2)	(2)	(2)
	Pennsylvania.....	153	36	3,893	22,824	3,012	6,030	16,280	37,932	84,159	1,526	(2)	(2)	(2)
	East North Central	323	98	12,337	67,837	9,079	18,171	43,486	127,512	292,989	5,063	(2)	(2)	(2)
	Ohio.....	101	32	3,863	20,463	2,958	6,102	14,370	36,587	95,051	1,521	(2)	(2)	(2)
	Indiana.....	32	6	1,241	7,177	845	1,709	4,188	15,457	35,498	(3)	(2)	(2)	(2)
	Illinois.....	99	31	4,998	27,712	3,622	7,133	17,105	54,800	116,855	2,041	(2)	(2)	(2)
	Michigan.....	59	20	1,685	9,502	1,254	2,406	5,950	15,553	33,799	1,065	(2)	(2)	(2)
	Wisconsin.....	32	9	550	2,983	400	821	1,873	5,115	11,786	(3)	(2)	(2)	(2)
	West North Central	92	30	2,899	15,278	2,235	4,689	9,549	30,933	60,962	948	(2)	(2)	(2)
	Minnesota.....	19	10	1,028	5,406	804	1,766	3,603	10,465	19,886	(3)	(2)	(2)	(2)
	Missouri.....	37	6	555	3,000	416	838	1,931	4,702	8,513	(3)	(2)	(2)	(2)
	Kansas.....	9	4	212	1,071	138	254	560	2,792	6,842	(3)	(2)	(2)	(2)
	South Atlantic....	205	52	5,169	24,581	3,698	7,350	14,439	41,769	111,591	2,136	(2)	(2)	(2)
	Maryland.....	33	10	1,099	5,423	692	1,312	2,808	10,473	25,259	(3)	(2)	(2)	(2)
	Dist. of Col....	6	3	209	1,186	153	319	632	1,966	2,861	(3)	(2)	(2)	(2)
	Virginia.....	17	5	525	2,732	363	730	1,318	3,556	11,061	(3)	(2)	(2)	(2)
	West Virginia....	9	4	1,133	5,730	849	1,682	3,906	9,262	24,233	(3)	(2)	(2)	(2)
	North Carolina..	23	2	1,113	2,238	152	304	548	2,291	6,730	(3)	(2)	(2)	(2)
	South Carolina..	13	4	371	1,218	279	530	865	2,978	7,390	(3)	(2)	(2)	(2)
	Georgia.....	25	5	248	974	183	332	561	1,093	4,787	(3)	(2)	(2)	(2)
	Florida.....	74	17	1,287	5,876	983	2,062	3,590	9,510	27,557	624	(2)	(2)	(2)
	East South Central	83	26	2,976	14,762	2,203	4,460	9,474	26,268	67,246	1,571	(2)	(2)	(2)
	Kentucky.....	17	7	994	5,177	724	1,434	3,428	6,964	16,280	(3)	(2)	(2)	(2)
	Tennessee.....	28	6	619	2,565	468	993	1,727	5,294	12,218	(3)	(2)	(2)	(2)
	Alabama.....	33	11	1,222	6,306	916	1,823	3,999	12,426	34,875	1,121	(2)	(2)	(2)
	Mississippi.....	5	2	141	714	95	210	320	1,584	3,873	(3)	(2)	(2)	(2)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Miscellaneous metal-work, nec--Continued													
	West South Central	132	29	3,485	16,240	2,417	4,990	9,277	26,976	66,434	983	(2)	(2)	(2)
	Louisiana.....	30	3	330	1,388	222	393	835	2,088	6,180	(3)	(2)	(2)	(2)
	Oklahoma.....	13	4	257	1,289	187	365	803	2,159	4,733	(D)	(2)	(2)	(2)
	Texas.....	82	22	2,883	13,525	1,994	4,212	7,603	22,612	55,284	849	(2)	(2)	(2)
	Mountain.....	53	14	1,058	4,938	810	1,724	3,507	8,613	22,431	(3)	(2)	(2)	(2)
	Arizona.....	9	3	291	1,131	233	413	775	1,308	3,050	(3)	(2)	(2)	(2)
	Utah.....	13	5	319	1,560	200	419	939	3,351	7,293	(3)	(2)	(2)	(2)
	Pacific.....	175	51	4,695	27,489	3,205	6,153	16,839	46,707	106,479	1,499	(2)	(2)	(2)
	Washington.....	23	4	275	1,533	177	320	876	2,113	5,567	(3)	(2)	(2)	(2)
	Oregon.....	12	6	489	2,305	330	515	1,075	4,823	12,773	(3)	(2)	(2)	(2)
	California.....	140	41	3,931	23,651	2,698	5,318	14,888	39,771	88,139	1,119	(2)	(2)	(2)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3441, Fabricated Structural Steel: New England—Maine, 4 (100-249); New Hampshire, 4 (20-99); Vermont, 2 (100-249); Rhode Island, 9 (250-499); West North Central—North Dakota, 3 (100-249); South Dakota, 2 (100-249); Nebraska, 13 (500-999); South Atlantic—Delaware, 4 (20-99); District of Columbia, 2 (20-99); Mountain—Montana, 4 (20-99); Idaho, 4 (250-499); Wyoming, 1 (20-99); Colorado, 19 (500-999); Nevada, 4 (20-99). SIC 3442, Metal Doors, Sash and Trim: New England—Maine, 4 (20-99); West North Central—Iowa, 17 (250-499); South Dakota, 2 (1-19); Nebraska, 12 (20-99); South Atlantic—Delaware, 7 (20-99); District of Columbia, 2 (20-99); West Virginia, 6 (20-99); North Carolina, 8 (20-99); East South Central—Tennessee, 23 (250-499); Mississippi, 6 (250-499); Mountain—Montana, 4 (20-99); Idaho, 1 (1-19); Colorado, 14 (250-499); New Mexico, 1 (1-19); Arizona, 5 (20-99); Nevada, 2 (1-19). SIC 3443, Boiler Shop Products: New England—Maine, 5 (100-249); New Hampshire, 2 (1-19); Vermont, 1 (1-19); Rhode Island, 5 (20-99); West North Central—North Dakota, 2 (20-99); South Dakota, 3 (20-99); Nebraska, 6 (20-99); South Atlantic—District of Columbia, 1 (20-99); West Virginia, 2 (20-99); South Carolina, 5 (20-99); East South Central—Tennessee, 9 (5,732); Mississippi, 8 (1,057); Mountain—Montana, 3 (100-249); Idaho, 2 (100-249); Wyoming, 1 (1-19); New Mexico, 5 (20-99); Arizona, 5 (100-249); Nevada, 1 (1-19). SIC 3444, Sheet Metal-Work: New England—Maine, 11 (20-99); New Hampshire, 10 (20-99); Vermont, 5 (20-99); West North Central—North Dakota, 3 (20-99); South Dakota, 5 (100-249); South Atlantic—Delaware, 5 (1-19); Mountain—Montana, 10 (20-99); Wyoming, 6 (20-99); Nevada, 3 (20-99). SIC 3449, Miscellaneous Metal Work, Nec: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Rhode Island, 7 (20-99); West North Central—Iowa, 17 (250-499); South Dakota, 1 (20-99); Nebraska, 9 (500-999); South Atlantic—Delaware, 5 (20-99); West South Central—Arkansas, 7 (1-19); Mountain—Montana, 3 (1-19); Idaho, 2 (1-19); Colorado, 20 (250-499); New Mexico, 6 (20-99).

<sup>2</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see tables 1A, 2A and text of this report). <sup>3</sup>Less than \$500 thousands. <sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3441	Structural and ornamental work, total <sup>2</sup> .....	3,436	1,175	132,750	723,738	98,365	196,764	473,030	1,215,839	2,808,380	52,607	116,274	909,782	79,077
	New England.....	179	43	4,630	26,117	3,255	6,754	15,178	41,885	92,678	2,034	3,180	23,811	2,318
	Massachusetts....	94	24	2,516	14,059	1,777	3,525	8,085	22,243	46,334	910	1,997	14,617	1,340
	Rhode Island....	16	5	418	2,235	278	592	1,317	3,289	7,992	( <sup>3</sup> )	381	2,825	318
	Connecticut.....	56	9	1,226	6,856	876	1,851	4,109	11,170	23,428	714	326	2,355	434
	Middle Atlantic....	898	257	34,873	198,581	26,822	51,878	138,120	336,876	713,914	13,450	33,713	299,735	23,883
	New York.....	405	110	10,132	60,867	7,789	15,457	42,377	101,725	192,582	4,430	9,268	79,044	7,471
	New Jersey.....	197	41	4,367	25,387	3,299	6,362	16,582	53,915	111,562	1,917	4,667	52,082	2,644
	Pennsylvania.....	296	106	20,374	112,327	15,734	30,059	79,161	181,236	409,770	7,103	19,777	168,609	13,768
	East North Central	732	267	32,970	188,704	23,898	48,365	120,101	315,051	725,432	10,983	29,448	241,794	21,147
	Ohio.....	205	75	8,405	46,713	6,314	13,052	30,987	78,642	186,256	2,715	9,533	74,639	5,728
	Indiana.....	71	26	5,792	32,104	4,340	8,716	21,486	45,032	131,050	1,352	5,028	46,284	4,754
	Illinois.....	227	88	10,432	60,296	7,631	15,200	38,443	113,404	237,099	4,149	6,564	57,181	5,042
	Michigan.....	157	51	5,580	33,448	3,766	7,558	19,786	52,525	118,034	1,902	6,294	50,058	3,653
	Wisconsin.....	72	27	2,761	16,143	1,847	3,839	9,399	25,448	52,993	865	2,028	13,631	1,970
	West North Central	226	92	9,184	49,942	6,834	14,218	31,424	92,826	217,176	4,072	9,301	73,364	6,122
	Minnesota.....	46	21	2,560	14,406	1,929	4,078	9,447	25,352	54,723	1,198	1,868	15,433	2,036
	Iowa.....	46	16	1,286	6,382	1,008	2,039	4,362	12,908	34,880	717	1,449	13,588	1,210
	Missouri.....	76	25	2,179	12,337	1,595	3,370	7,758	24,678	51,377	875	2,903	24,300	1,350
	Nebraska.....	22	9	1,389	7,554	1,044	2,170	4,405	13,839	34,178	836	1,258	8,351	350
	Kansas.....	30	17	1,435	7,559	1,025	2,058	4,526	13,219	33,143	( <sup>3</sup> )	1,331	8,098	1,025
	South Atlantic....	403	148	13,278	64,183	9,686	19,246	39,137	104,346	272,696	5,188	9,321	61,000	6,235
	Maryland.....	64	25	2,180	11,005	1,435	2,766	6,136	19,528	45,950	824	1,530	12,105	584
	Virginia.....	53	24	3,170	16,166	2,364	4,615	9,920	21,235	59,061	1,105	2,922	16,417	2,006
	West Virginia....	19	10	1,432	7,423	1,071	2,119	4,894	12,425	30,892	559	579	4,230	1,214
	North Carolina..	43	16	1,288	6,687	844	1,799	3,639	10,093	30,296	( <sup>3</sup> )	1,276	9,412	916
	South Carolina..	26	13	1,211	5,060	878	1,834	3,014	12,358	29,432	717	558	3,804	137
	Georgia.....	47	17	863	3,660	652	1,205	2,257	4,832	14,730	( <sup>3</sup> )	709	3,778	665
	Florida.....	134	35	2,758	12,157	2,173	4,377	8,138	20,547	55,622	1,283	1,428	9,014	454
	East South Central	173	74	7,699	37,307	5,781	11,606	24,597	61,843	151,818	3,175	6,926	52,699	4,686
	Kentucky.....	27	16	1,165	6,082	854	1,731	3,978	8,936	19,436	( <sup>3</sup> )	513	4,147	761
	Tennessee.....	55	21	2,036	9,244	1,535	3,086	6,174	14,500	35,572	622	2,246	14,615	1,065
	Alabama.....	73	29	4,094	20,289	3,098	6,163	13,473	35,415	87,847	2,199	3,879	31,693	2,730
	Mississippi.....	18	8	404	1,692	294	626	972	2,992	8,963	( <sup>3</sup> )	288	2,243	130
	West South Central	297	103	12,094	56,590	8,914	18,524	35,091	93,390	247,384	6,628	10,585	62,654	6,453
	Arkansas.....	17	5	469	2,207	359	689	1,495	4,001	11,532	( <sup>3</sup> )	419	2,501	261
	Louisiana.....	57	16	1,357	6,524	1,051	2,097	4,456	10,778	27,309	( <sup>3</sup> )	1,258	6,618	592
	Oklahoma.....	38	16	2,605	13,400	1,804	3,750	7,429	22,457	58,421	3,324	2,409	15,708	1,314
	Texas.....	185	66	7,663	34,459	5,700	11,988	21,711	56,154	150,122	2,776	6,498	37,826	4,286
	Mountain.....	116	49	3,902	19,702	2,907	6,092	13,933	30,981	80,978	1,755	2,457	15,038	1,336
	Idaho.....	6	2	284	1,549	179	393	877	1,888	6,094	( <sup>3</sup> )	287	921	(D)
	Colorado.....	39	18	1,216	6,461	965	2,100	4,709	11,161	25,864	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Arizona.....	22	9	1,117	5,550	813	1,805	4,314	7,644	19,409	( <sup>3</sup> )	586	2,561	405
	Utah.....	24	14	882	4,606	625	1,279	2,977	7,543	22,256	666	606	4,671	322
	Pacific.....	412	142	14,120	82,612	10,268	20,081	55,449	138,641	306,304	5,322	11,338	74,863	6,897
	Washington.....	65	19	1,777	9,952	1,361	2,601	7,057	15,589	33,154	568	1,121	9,435	375
	Oregon.....	33	16	1,311	6,159	984	1,761	3,927	13,388	27,175	( <sup>3</sup> )	1,606	9,783	780
	California.....	314	107	11,032	66,501	7,923	15,719	44,465	109,664	245,975	4,323	8,611	60,465	5,742
3442	Metal doors, sash and trim, total <sup>2</sup> ...	1,440	516	54,353	257,100	39,747	78,672	161,929	437,859	969,425	17,096	43,284	334,956	23,336
	New England.....	106	33	2,510	10,980	1,997	3,865	7,766	20,772	42,827	652	1,877	11,694	411
	New Hampshire..	7	3	238	1,077	186	383	736	1,870	4,209	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Massachusetts....	54	16	1,250	5,098	1,001	1,871	3,737	9,842	21,314	(D)	881	5,966	157
	Rhode Island....	15	3	295	1,263	242	470	848	2,445	5,019	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Connecticut.....	26	10	674	3,333	538	1,083	2,349	6,287	11,653	( <sup>3</sup> )	424	3,044	(D)
	Middle Atlantic....	381	150	14,229	66,104	10,782	21,478	42,996	110,058	241,455	4,134	13,198	98,590	6,848
	New York.....	203	91	7,334	34,264	5,456	10,834	22,247	60,217	120,258	1,539	7,638	59,946	3,476
	New Jersey.....	76	20	1,751	7,388	1,334	2,753	4,975	13,414	33,769	( <sup>3</sup> )	1,345	8,840	910
	Pennsylvania....	102	39	5,144	24,452	3,992	7,891	15,774	36,427	87,428	2,245	4,215	29,802	2,462
	East North Central	368	136	17,198	89,837	11,698	23,215	54,205	144,022	309,481	4,498	16,891	146,692	12,221
	Ohio.....	85	31	5,291	27,228	3,663	6,931	17,187	42,553	89,648	1,430	5,697	53,530	4,343
	Indiana.....	38	15	1,619	7,964	1,099	2,258	4,810	12,229	26,925	( <sup>3</sup> )	1,835	12,860	2,616
	Illinois.....	104	36	3,794	19,186	2,769	5,665	12,428	36,541	76,953	1,062	2,904	26,522	2,033
	Michigan.....	122	48	5,734	32,396	3,642	7,350	17,879	48,314	106,372	1,504	5,961	50,636	3,020
	Wisconsin.....	19	6	760	3,063	525	1,011	1,901	4,385	9,583	( <sup>3</sup> )	492	3,142	209
	West North Central	122	24	3,175	15,090	2,322	4,399	9,482	26,317	57,054	918	1,822	12,066	1,111
	Minnesota.....	27	4	440	1,973	334	621	1,252	3,282	6,937	( <sup>3</sup> )	241	1,692	(D)
	Missouri.....	42	12	2,006	9,928	1,500	2,878	6,603	15,631	31,988	( <sup>3</sup> )	1,303	8,778	871
	Kansas.....	22	5	283	1,329	142	249	484	2,685	6,218	( <sup>3</sup> )	171	1,062	(D)
	South Atlantic....	151	55	6,757	25,710	4,933	9,665	15,537	47,262	127,453	2,670	3,858	25,355	712
	Virginia.....	18	6	558	2,302	379	797	1,437	3,632	8,167	( <sup>3</sup> )	437	2,396	232
	Georgia.....	12	4	1,233	5,039	962	2,056	3,268	10,167	23,784	689	750	4,818	74
	Florida.....	81	38	4,408	16,265	3,194	6,064	9,546	29,717	86,367	1,714	2,159	15,327	211

See footnotes at end of table.



## FABRICATED STRUCTURAL METAL PRODUCTS

34C-13

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expend- itures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Metal doors, sash, etc.—Con.													
	East South Central	52	19	2,217	8,941	1,811	3,778	6,298	17,910	37,242	533	913	6,913	376
	Kentucky.....	17	6	731	3,389	521	1,007	1,992	8,614	16,688	(3)	365	3,327	(D)
	Alabama.....	8	4	822	3,161	760	1,691	2,736	6,116	10,623	(3)	398	2,799	108
	West South Central	62	30	2,447	9,183	1,984	3,916	6,394	16,096	39,381	1,410	985	6,456	253
	Louisiana.....	8	2	451	1,854	356	786	1,291	4,015	7,266	(3)	166	753	...
	Texas.....	41	25	1,786	6,510	1,447	2,765	4,515	10,802	28,113	921	777	5,496	(D)
	Mountain.....	34	6	581	3,227	388	747	1,774	5,382	10,222	(3)	540	3,389	(D)
	Utah.....	7	2	149	668	96	183	422	1,779	3,121	(3)	60	250	...
	Pacific.....	164	63	5,239	28,028	3,832	7,609	17,477	50,040	104,310	2,078	3,196	23,797	(D)
	Washington.....	26	8	853	4,757	665	1,218	3,114	8,624	14,620	(3)	609	4,288	212
	Oregon.....	10	4	322	1,653	254	512	1,187	2,501	4,559	(3)	231	1,216	(D)
	California.....	128	51	4,064	21,618	2,913	5,879	13,176	38,915	85,131	1,727	2,354	18,293	1,043
3443	Boiler shop products, total <sup>2</sup> ...	1,189	516	81,501	444,715	58,921	115,735	292,055	682,298	1,500,875	40,740	74,373	578,568	68,232
	New England.....	72	24	2,575	14,345	1,818	3,549	8,393	21,930	40,975	2,767	2,292	15,024	2,531
	Massachusetts...	41	18	1,608	8,338	1,149	2,145	5,020	12,663	23,373	(D)	1,324	9,077	1,706
	Connecticut.....	18	4	724	4,731	479	1,009	2,466	7,587	13,201	(D)	208	1,272	388
	Middle Atlantic...	268	113	20,265	113,007	15,354	29,794	78,144	180,153	372,330	7,154	18,901	148,765	18,197
	New York.....	97	31	4,593	25,021	3,363	6,992	16,770	43,098	86,992	2,316	5,455	48,123	3,758
	New Jersey.....	60	18	1,482	8,538	1,115	2,242	5,803	13,666	28,411	(3)	2,148	13,601	1,499
	Pennsylvania.....	111	64	14,190	79,448	10,876	20,560	55,571	123,389	256,927	4,386	11,297	87,040	12,940
	East North Central	308	131	19,889	115,084	13,340	26,688	69,448	177,566	390,586	14,735	20,178	167,302	19,849
	Ohio.....	91	40	9,005	51,593	5,678	11,603	29,532	82,304	180,110	(D)	8,002	69,195	9,321
	Indiana.....	28	11	3,203	18,733	2,070	4,123	11,427	34,440	70,656	1,785	3,049	22,086	2,147
	Illinois.....	81	40	3,459	20,571	2,482	4,800	12,594	27,829	63,756	1,011	3,186	27,700	2,989
	Michigan.....	64	20	1,526	8,534	1,131	2,319	5,615	12,542	31,019	(D)	2,475	19,781	2,121
	Wisconsin.....	44	20	2,696	15,653	1,979	3,843	10,280	20,451	45,045	2,731	3,466	28,538	3,271
	West North Central	77	31	4,649	23,886	3,440	6,727	16,825	35,801	80,606	2,064	3,414	25,743	6,597
	Minnesota.....	15	6	596	3,172	483	955	2,255	5,211	9,675	(3)	440	2,772	1,568
	Iowa.....	11	5	307	1,397	240	455	947	2,442	6,988	(3)	225	1,336	314
	Missouri.....	28	13	3,039	15,475	2,169	4,386	10,717	22,716	52,675	1,663	1,904	17,083	3,846
	Kansas.....	14	5	609	3,388	473	794	2,582	4,450	8,829	(3)	770	4,115	(D)
	South Atlantic....	98	44	4,860	23,941	3,375	6,893	15,195	31,684	77,483	1,678	3,906	24,586	3,788
	Delaware.....	7	3	492	2,726	342	744	1,870	5,018	13,129	(3)	(4)	(4)	(4)
	Maryland.....	16	8	517	2,482	380	734	1,566	3,616	8,201	(3)	541	3,678	1,570
	Virginia.....	10	6	1,442	8,006	627	1,427	3,164	6,747	14,599	858	570	2,800	748
	North Carolina..	19	8	996	4,316	845	1,655	3,544	6,609	19,438	(3)	1,001	8,096	299
	Georgia.....	18	9	982	4,425	850	1,720	3,667	6,277	13,965	(3)	1,310	7,454	524
	Florida.....	20	7	302	1,392	238	441	1,001	2,555	6,078	(3)	174	920	222
	East South Central	48	27	8,615	42,656	6,698	13,058	31,609	62,571	138,084	1,755	7,040	48,867	5,043
	Kentucky.....	16	7	625	2,892	470	930	1,925	3,766	8,860	(3)	379	2,697	414
	Alabama.....	15	9	1,201	7,281	1,059	2,232	6,302	10,743	28,916	543	1,208	11,846	877
	West South Central	117	62	8,105	39,422	5,716	11,945	24,588	62,947	161,052	3,408	8,090	64,830	5,247
	Arkansas.....	5	3	118	505	88	187	297	793	1,945	(3)	114	658	(D)
	Louisiana.....	12	7	1,541	7,994	1,092	2,331	4,692	9,511	27,014	510	1,067	7,080	(D)
	Oklahoma.....	18	8	1,761	9,255	1,027	2,194	4,527	18,734	37,886	638	3,110	26,645	1,518
	Texas.....	82	44	4,685	21,668	3,509	7,233	15,072	33,909	94,207	2,217	3,799	30,446	2,394
	Mountain.....	40	20	2,335	11,601	1,708	3,416	8,035	16,135	48,100	2,047	1,375	11,797	833
	Colorado.....	14	6	701	3,313	441	884	1,956	4,882	14,385	559	(4)	(4)	(4)
	Utah.....	9	7	1,153	5,784	920	1,857	4,485	7,219	23,560	1,195	824	8,525	(D)
	Pacific.....	161	64	10,208	60,773	7,472	13,665	39,818	93,511	191,659	5,132	9,174	71,651	6,147
	Washington.....	27	10	573	3,486	459	852	2,622	4,702	10,345	(3)	633	5,436	722
	Oregon.....	13	5	453	2,682	348	770	1,914	3,055	11,666	(3)	1,492	8,839	1,023
	California.....	121	49	9,182	54,605	6,665	12,043	35,282	85,754	169,648	4,606	7,048	57,375	4,402

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3441, Structural and Ornamental Work: New England—Maine, 5 (100-249); New Hampshire, 6 (100-249); Vermont, 2 (100-249); West North Central—North Dakota, 3 (100-249); South Dakota, 3 (100-249); South Atlantic—Delaware, 9 (100-249); District of Columbia, 8 (250-499); Mountain—Montana, 7 (20-99); Wyoming, 1 (20-99); New Mexico, 13 (100-249); Nevada, 4 (20-99).

SIC 3442, Metal Doors, Sash and Trim: New England—Maine, 4 (20-99); West North Central—Iowa, 17 (250-499); South Dakota, 2 (1-19); Nebraska, 12 (20-99); South Atlantic—Delaware, 7 (20-99); Maryland, 12 (100-249); District of Columbia, 1 (20-99); West Virginia, 6 (20-99); North Carolina, 8 (20-99); South Carolina, 6 (100-249); East South Central—Tennessee, 22 (250-499); Mississippi, 5 (250-499); West South Central—Arkansas, 5 (100-249); Oklahoma, 8 (100-249); Mountain—Montana, 4 (20-99); Idaho, 1 (1-19); Colorado, 14 (250-499); New Mexico, 1 (1-19); Arizona, 5 (20-99); Nevada, 2 (1-19).

SIC 3443, Boiler Shop Products: New England—Maine, 5 (100-249); New Hampshire, 2 (1-19); Vermont, 1 (1-19); Rhode Island, 5 (20-99); West North Central—North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 6 (20-99); South Atlantic—District of Columbia, 1 (20-99); West Virginia, 2 (20-99); South Carolina, 5 (20-99); East South Central—Tennessee, 9 (5,732); Mississippi, 8 (1,057); Mountain—Montana, 3 (100-249); Idaho, 2 (100-249); Wyoming, 1 (1-19); New Mexico, 5 (500-999); Arizona, 5 (100-249); Nevada, 1 (1-19).

<sup>2</sup>See footnote 11 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.<sup>3</sup>Less than \$500 thousand.<sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

# MANUFACTURES—INDUSTRY STATISTICS

## Table 3.—Detailed Statistics for the United States: 1958

Item	Fabricated structural steel (SIC 3441)	Metal doors, sash and trim (SIC 3442)	Boiler shop products (SIC 3443)	Sheet metal work (SIC 3444)	Miscellaneous metal work, nec (SIC 3449)
Primary product specialization ratio <sup>1</sup> .....	87	91	89	88	87
Coverage ratio <sup>2</sup> .....	91	93	83	82	74
Number of establishments, total.....	1,861	1,546	1,252	3,159	1,591
With 1-19 employees.....	1,081	986	695	2,460	1,194
With 20-99 employees.....	576	436	401	611	305
With 100 employees or more.....	204	124	156	88	92
Proprietors and working partners.....Number..	808	540	553	2,023	1,194
All employees:					
Number (average for the year).....	91,252	57,897	90,551	58,800	42,122
Payroll.....\$1,000..	502,697	273,219	497,146	309,060	224,804
Production workers:					
Number (average for the year).....	68,009	42,433	64,658	44,587	30,856
March.....	67,695	38,231	67,691	41,787	28,509
May.....	67,411	41,851	65,383	43,805	30,462
August.....	69,633	44,936	64,728	47,219	33,409
November.....	67,941	45,271	61,358	46,123	31,816
Man-hours.....1,000..	135,764	83,849	127,164	86,550	61,990
January-March.....do....	33,674	18,160	33,943	19,390	13,864
April-June.....do....	33,863	20,602	32,112	21,023	15,044
July-September.....do....	33,779	21,883	30,099	22,436	16,560
October-December.....do....	33,816	22,548	30,542	22,548	15,849
Wages.....\$1,000..	332,691	171,756	323,238	211,613	142,607
Cost of materials, etc., total.....do....	1,017,689	570,782	878,425	569,540	516,554
Materials, parts, containers, and supplies consumed.....do....	856,619	517,157	768,511	462,140	435,154
Cost of resales.....do....	107,035	32,722	65,955	85,582	66,561
Fuels consumed.....do....	5,359	3,144	8,219	3,357	2,359
Electricity purchased.....do....	7,679	4,525	9,540	4,253	3,361
Contract work.....do....	40,897	13,234	26,200	14,208	9,121
Value of shipments (including resales), total.....do....	1,901,106	1,037,371	1,670,007	1,077,811	917,151
Value of resales.....do....	134,421	42,464	75,742	103,296	86,774
Value added by manufacture, adjusted.....do....	821,626	469,050	754,972	516,136	401,076
Manufacturers' inventories:					
Beginning of year, total.....do....	558,699	161,871	434,078	140,019	151,612
Finished products.....do....	29,633	43,318	57,004	32,746	46,511
Work-in-process.....do....	295,374	34,061	198,059	32,750	34,465
Materials, supplies, fuel, etc.....do....	233,692	84,492	179,015	74,523	70,636
End of year, total.....do....	465,550	161,784	363,547	148,450	148,673
Finished products.....do....	24,851	42,522	54,289	37,384	43,458
Work-in-process.....do....	238,365	37,318	164,164	35,977	37,997
Materials, supplies, fuel, etc.....do....	202,334	81,944	145,094	75,089	67,218
Expenditures for plant and equipment, total.....do....	38,517	19,829	48,589	23,938	16,774
New, total.....do....	36,789	18,055	45,043	22,339	15,903
New structures and additions to plant.....do....	15,959	5,724	18,461	7,985	5,182
New machinery and equipment.....do....	20,830	12,331	26,582	14,354	10,721
Used plant and equipment.....do....	1,728	1,774	3,546	1,599	871

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



## FABRICATED STRUCTURAL METAL PRODUCTS

34C-15

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3441	Fabricated structural steel:											
	Number of establishments.....	1,861	427	300	354	389	186	138	45	18	3	1
	All employees:											
	Number.....	91,252	859	2,014	4,959	12,008	12,859	22,302	15,312	11,939	9,000	(D)
	Payroll.....\$1,000..	502,697	3,310	9,626	25,853	64,846	71,633	124,111	85,519	67,882	49,917	(D)
	Value added, adjusted..do....	821,626	7,526	17,983	38,697	106,336	112,858	213,880	143,147	123,119	58,080	(D)
	Value of shipments.....do....	1,901,106	16,519	39,712	87,791	231,699	255,723	491,963	348,171	258,520	171,008	(D)
	Capital expend., new....do....	36,789	1,175	1,342	2,423	5,285	4,511	6,732	6,396	5,870	3,055	(D)
3442	Metal doors, sash and trim:											
	Number of establishments.....	1,546	395	278	313	302	134	84	25	14	1	...
	All employees:											
	Number.....	57,897	884	1,919	4,322	9,417	9,099	12,916	8,312	11,028	(D)	...
	Payroll.....\$1,000..	273,219	3,638	8,171	19,218	42,166	40,080	61,482	41,645	56,819	(D)	...
	Value added, adjusted..do....	469,050	7,434	14,917	33,556	76,430	72,688	109,805	70,709	83,511	(D)	...
	Value of shipments.....do....	1,037,371	20,777	36,622	83,184	185,055	161,407	235,689	152,078	162,559	(D)	...
	Capital expend., new....do....	18,055	723	971	1,809	3,534	2,021	3,985	2,495	2,517	(D)	...
3443	Boiler shop products:											
	Number of establishments.....	1,252	271	189	235	282	119	91	28	25	9	3
	All employees:											
	Number.....	90,551	617	1,294	3,225	8,841	8,127	13,542	10,105	17,885	11,398	15,517
	Payroll.....\$1,000..	497,146	2,679	6,025	15,932	45,770	42,282	74,683	60,149	101,937	64,398	83,291
	Value added, adjusted..do....	754,972	6,415	11,445	26,580	71,966	67,328	103,081	77,559	142,699	114,457	133,442
	Value of shipments.....do....	1,670,007	13,380	22,520	57,490	158,192	145,159	234,712	184,716	344,571	230,998	278,269
	Capital expend., new....do....	45,043	( <sup>1</sup> )	869	1,222	3,295	2,769	5,073	6,309	10,199	4,636	10,194
3444	Sheet metal work:											
	Number of establishments.....	3,159	1,239	637	584	465	146	67	16	3	2	...
	All employees:											
	Number.....	58,800	2,579	4,248	7,898	14,040	9,841	10,095	5,268	4,831	(D)	...
	Payroll.....\$1,000..	309,060	10,557	19,554	38,922	75,710	53,067	54,924	27,187	29,139	(D)	...
	Value added, adjusted..do....	516,136	23,938	32,868	64,205	124,179	83,813	92,020	46,735	48,378	(D)	...
	Value of shipments.....do....	1,077,881	43,448	64,458	125,618	246,903	167,756	209,676	95,671	124,281	(D)	...
	Capital expend., new....do....	22,339	2,194	1,542	5,373	3,966	2,810	2,866	1,381	2,207	(D)	...
3449	Miscellaneous metal work,nec:											
	Number of establishments.....	1,591	746	220	228	200	105	65	20	5	2	...
	All employees:											
	Number.....	42,122	1,393	1,420	3,140	6,507	7,354	10,390	6,656	5,262	(D)	...
	Payroll.....\$1,000..	224,804	5,051	6,161	15,780	35,264	40,420	56,690	34,853	30,585	(D)	...
	Value added, adjusted..do....	401,076	11,716	10,390	28,510	63,307	67,630	105,223	60,558	53,742	(D)	...
	Value of shipments.....do....	917,151	21,413	19,442	61,165	166,026	162,313	253,149	125,998	107,645	(D)	...
	Capital expend., new....do....	15,903	894	517	1,465	2,378	2,169	4,254	2,307	1,919	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3441	Fabricated structural steel....1958..	1,901,106	1,455,835	223,840	221,431	87	1,602,126	1,455,835	146,291	91
3442	Metal doors, sash, and trim....1958..	1,037,371	886,920	82,574	67,877	91	951,661	886,920	64,741	93
3443	Boiler shop products.....1958..	1,670,007	1,347,173	168,376	154,458	89	1,613,999	1,347,173	266,826	83
3444	Sheet metal work.....1958..	1,077,811	827,471	111,683	138,657	88	1,008,471	827,471	181,000	82
		812,238	581,139	132,556	98,543	81	727,620	581,139	146,481	80
3449	Miscellaneous metalwork, nec....1958..	917,151	691,760	103,301	122,090	87	935,566	691,760	243,806	74

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. Each column shows for the industry named in the column heading the total value of shipments divided among (a) structural metal products, (b) other products, and (c) miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry named at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Fabricated structural steel (SIC 3441)	Metal doors, sash and trim (SIC 3442)	Boiler shop products (SIC 3443)	Sheet metal work (SIC 3444)	Miscellaneous metal work, nec (SIC 3449)	Blast furnaces and steel mills (SIC 3312)	Non-electric heating equipment (SIC 3433)	Ship-building and repairing (SIC 3731)	Other industries	All industries
	Total shipments of the industry...	1,901,106	1,037,371	1,670,007	1,077,811	917,151	xxx	xxx	xxx	xxx	xxx
344--	Structural metal products.....	1,638,165	936,097	1,399,172	866,827	761,728	53,905	31,738	32,779	xxx	xxx
34411	Fabricated structural iron and steel for buildings.....	860,015	4,973	15,018	2,851	23,938	(1)	(1)	3,323	<sup>2</sup> 20,199	930,399
34412	Fabricated structural iron and steel for bridges.....	258,270	(1)	3,637	(1)	1,846	...	...	5,142	<sup>3</sup> 10,662	279,624
34413	Other fabricated structural iron and steel.....	213,641	(D)	5,349	(1)	7,748	(1)	(1)	14,374	<sup>4</sup> 18,318	261,992
34410	Fabricated structural iron and steel, nsk.....	123,692	(D)	1,142	525	2,664	...	...	(D)	1,918	130,111
34421	Metal doors and frames (except storm doors).....	3,258	165,014	289	2,024	6,458	...	(1)	...	<sup>5</sup> 15,329	192,389
34422	Metal window sash and frames (except storm sash).....	1,138	268,509	(1)	(D)	5,902	...	(1)	...	<sup>6</sup> 9,625	285,311
34423	Metal molding and trim and store fronts.....	(1)	85,951	(1)	3,212	3,145	...	(D)	...	4,696	97,283
34424	Metal combination screen and storm sash and doors.....	(D)	227,427	...	803	(1)	...	(1)	...	3,033	231,510
34425	Metal window and door screens (except combination), and metal window strip.....	(1)	60,669	...	(1)	(D)	...	...	...	<sup>7</sup> 3,689	64,611
34420	Metal doors, sash, and trim, nsk....	...	79,350	...	(1)	(1)	...	...	...	<sup>8</sup> 1,135	80,557
34431	Heat exchangers and steam condensers	(D)	...	114,949	...	...	...	1,884	(D)	<sup>9</sup> 65,239	187,243
34432	Fabricated steel plate.....	17,574	(D)	197,052	3,756	3,567	9,076	296	(D)	<sup>10</sup> 25,221	259,265
34433	Steel power boilers, parts and attachments (over 15 p.s.i. steam working pressure).....	(D)	...	387,204	...	...	...	12,645	(D)	<sup>11</sup> 9,578	409,549
34434	Gas cylinders and other boiler shop products.....	9,405	(1)	97,248	566	643	...	233	...	<sup>12</sup> 16,847	125,031
34435	Metal tanks, complete at factory (Standard line, pressure and non-pressure) and metal septic tanks...	4,765	(D)	225,454	8,107	2,982	...	1,507	(D)	<sup>13</sup> 25,613	269,006
34436	Metal tanks custom fabricated at the factory.....	9,796	...	265,227	(D)	176	(D)	(D)	(D)	<sup>14</sup> 11,180	293,828
34430	Fabricated plate work (boiler shops), nsk.....	(1)	...	60,039	(1)	...	...	(1)	(D)	<sup>15</sup> 9,204	70,077
34441	Sheet metal roofing, siding, and drainage equipment.....	10,256	8,466	(D)	116,435	6,265	6,988	...	...	<sup>16</sup> 37,153	185,775
34442	Culverts, flumes, irrigation pipes..	(D)	...	8,977	108,370	(D)	...	...	...	<sup>17</sup> 5,403	126,878
34443	Other sheet metal work.....	2,735	2,959	9,674	413,609	(D)	(D)	10,823	...	<sup>18</sup> 42,604	485,913
34440	Sheet metal work, nsk.....	768	1,542	2,856	89,057	303	...	2,602	...	<sup>19</sup> 12,777	209,905
34491	Ornamental and structural metal work	39,890	5,827	(D)	3,615	260,387	...	(D)	...	<sup>20</sup> 20,193	332,941
34492	Prefabricated and portable metal buildings and parts.....	11,512	2,448	718	5,993	154,732	(D)	...	(D)	<sup>21</sup> 17,539	195,123
34493	Miscellaneous metal building materials.....	67,604	21,514	(D)	7,057	276,641	29,023	...	(D)	<sup>22</sup> 4,013	407,502
	Other products.....	41,510	33,397	116,377	72,327	33,333	xxx	xxx	xxx	xxx	xxx
25420	Metal partitions, shelving, lockers, and office and store fixtures.....	(D)	(D)	(1)	2,305	(1)	xxx	xxx	xxx	xxx	xxx
34335	Steel heating boilers (15 p.s.i. and under), except parts.....	...	...	8,543	...	...	xxx	xxx	xxx	xxx	xxx
34336	Other heating equipment, except electric, including parts.....	205	(D)	5,554	835	727	xxx	xxx	xxx	xxx	xxx
34612	Job stampings, except automotive....	(D)	(D)	571	2,337	1,197	xxx	xxx	xxx	xxx	xxx
34618	Other stamped and pressed metal end products.....	...	1,382	(D)	2,299	367	xxx	xxx	xxx	xxx	xxx
34819	Other fabricated wire products, not produced by wire drawers.....	645	(D)	132	671	4,285	xxx	xxx	xxx	xxx	xxx
34990	Fabricated metal products, nec.....	1,163	1,160	5,950	3,326	2,440	xxx	xxx	xxx	xxx	xxx
35319	Other construction machinery and equipment including attachments for mounting on tractors.....	3,339	...	...	(D)	...	xxx	xxx	xxx	xxx	xxx
35595	Other special industry machinery and equipment.....	...	...	2,182	...	...	xxx	xxx	xxx	xxx	xxx
35690	General industrial machinery, nec...	(D)	...	9,980	(D)	(1)	xxx	xxx	xxx	xxx	xxx
35891	Commercial cooking and food warming equipment.....	...	...	(D)	2,246	...	xxx	xxx	xxx	xxx	xxx
37150	Truck trailers.....	(D)	...	4,057	(1)	...	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	33,040	27,734	78,455	56,744	24,225	xxx	xxx	xxx	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Class of products and miscellaneous receipts	Fabricated structural steel (SIC 3441)	Metal doors, sash and trim (SIC 3442)	Boiler shop products (SIC 3443)	Sheet metal work (SIC 3444)	Miscel- laneous metal work, nec (SIC 3449)	Blast furnaces and steel mills (SIC 3312)	Non- electric heating equip- ment (SIC 3433)	Ship building and repairing (SIC 3731)	Other indus- tries	All indus- tries
	Miscellaneous receipts.....	221,431	67,877	154,458	138,657	122,090	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	27,044	5,361	17,605	15,949	3,390	xxx	xxx	xxx	xxx	xxx
	Scrap.....	7,413	4,786	4,156	1,861	2,654	xxx	xxx	xxx	xxx	xxx
	Installation work by manufacturing plant employees.....	45,938	10,913	22,139	9,473	14,713	xxx	xxx	xxx	xxx	xxx
	Resales.....	134,421	42,464	75,742	103,290	86,774	xxx	xxx	xxx	xxx	xxx
	Other.....	6,615	4,353	34,816	8,078	14,559	xxx	xxx	xxx	xxx	xxx

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Includes an amount between \$2 and \$5 million each produced in Industry 3317, Steel Pipe and Tubes; Industry 3491, Metal Barrels, Drums, and Pails; and Industry 3532, Mining Machinery and Equipment.

<sup>3</sup>Includes an amount between \$2 and \$5 million each produced in Industry 3511, Steam Engines and Turbines; and Industry 3642, Lighting Fixtures.

<sup>4</sup>Includes an amount between \$5 and \$10 million produced in Industry 3317, Steel Pipes and Tubes, and an amount between \$2 and \$5 million each produced in Industry 3461, Metal Stampings; and Industry 3732, Boat Building and Repairing.

<sup>5</sup>Includes an amount between \$2 and \$5 million each produced in Industry 3481, Fabricated Wire Products, NEC; and Industry 3522, Farm Machinery and equipment.

<sup>6</sup>Includes an amount between \$2 and \$5 million produced in Industry 3352, Aluminum Rolling and Drawing.

<sup>7</sup>Includes \$2,030 thousand produced in Industry 2431, Millwork Plants.

<sup>8</sup>Includes \$23,878 thousand produced in Industry 3511, Steam Engines and Turbines; \$5,447 thousand produced in Industry 3559, Special Industrial Machinery, NEC; an amount between \$2 and \$5 million each produced in Industry 3494, Valves and Pipe Fittings; Industry 3639, Household Appliances, NEC; and Industry 3717, Motor Vehicles and Parts; an amount between \$5 and \$10 million each produced in Industry 3498, Fabricated Pipe and Fittings; and Industry 3585, Refrigeration Machinery; and an amount between \$10 and \$20 million in Industry 3561, Pumps and Compressors.

<sup>9</sup>Includes an amount between \$2 and \$5 million produced in Industry 3533, Oil Field Machines and Equipment; and an amount between \$10 and \$20 million produced in Industry 3742, Railroad and Street Cars.

<sup>10</sup>Includes an amount between \$2 and \$5 million each produced in Industry 3494, Valves and Pipe Fittings; and Industry 3531, Construction Machinery.

<sup>11</sup>Includes an amount between \$2 and \$5 million each produced in Industry 3391, Iron and Steel Forgings; and Industry 3717, Motor Vehicles and Parts.

<sup>12</sup>Includes \$5,945 thousand produced in Industry 3551, Food Products Machinery; and an amount between \$2 and \$5 million each produced in Industry 3639, Household Appliances, NEC; and Industry 3729, Aircraft Equipment, NEC.

<sup>13</sup>Includes an amount between \$2 and \$5 million each produced in Industry 3531, Construction Machinery; and Industry 3742, Railroad and Street Cars.

<sup>14</sup>Includes an amount between \$5 and \$10 million produced in Industry 3317, Steel Pipe and Tubes.

<sup>15</sup>Includes \$28,119 thousand produced in Industry 3352, Aluminum Rolling and Drawing; and \$4,388 thousand produced in Industry 3461, Metal Stampings.

<sup>16</sup>Includes \$3,063 thousand produced in Industry 2591, Venetian Blinds and Shades; \$7,891 thousand produced in Industry 3461, Metal Stampings; and \$2468 thousand produced in Industry 3634, Electric Housewares and Fans; also an amount between \$2 and \$5 million each in Industry 3576, Scales and Balances; Industry 3611, Electric Measuring Instruments; Industry 3715, Truck Trailers; Industry 3722, Aircraft Engines and Parts.

<sup>17</sup>Includes \$2,100 thousand produced in Industry 3352, Aluminum Rolling and Drawing; also an amount between \$2 and \$5 million in Industry 3679, Electronic Components, nec.

<sup>18</sup>Includes an amount between \$2 and \$5 million produced in Industry 3679, Electronic Components, NEC; and an amount between \$5 and \$10 million produced in Industry 3639, Household Appliances, NEC.

<sup>19</sup>Includes an amount between \$2 and \$5 million produced in Industry 2591, Venetian Blinds and Shades.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3441--	Fabricated structural iron and steel, total.....	.....	xxx	1,602,126	xxx	1,103,873
34411--	Fabricated structural iron and steel for buildings <sup>1</sup> .....	.....	xxx	930,399	xxx	682,858
	Fabricated structural iron and steel for sale to other companies:					
3441121	Industrial.....	Short tons.....	899,069	267,802	1,237,319	292,951
3441125	Commercial, residential, and institutional.....	...do.....	1,018,993	263,742	775,421	178,200
3441127	Public utilities:					
	Quantity reported.....	...do.....	173,776	56,128	191,964	47,177
	Quantity not reported.....	.....	xxx	16,766	...	...
	Fabricated structural iron and steel for installation by the same company on the site of construction:					
3441161	Industrial.....	Short tons.....	279,412	100,089	296,016	75,511
3441165	Commercial, residential, and institutional.....	...do.....	319,885	103,653	188,028	43,227
3441167	Public utilities:					
	Quantity reported.....	...do.....	30,311	13,768	32,776	10,775
	Quantity not reported.....	.....	xxx	3,230	...	...
3441100	Fabricated structural steel, nsk <sup>2</sup> .....	.....	xxx	105,221	xxx	35,017
34412--	Fabricated structural iron and steel for bridges.....	Short tons.....	843,511	279,624	775,727	199,315
	Fabricated structural iron and steel for sale to other companies:					
3441211	Highway bridges.....	...do.....	659,091	219,183	629,528	165,208
3441215	Railway bridges.....	...do.....	54,225	18,978	38,436	9,446
3441251	For installation by the same company on the site of construction.....	...do.....	130,193	41,463	107,763	24,661
34413--	Other fabricated structural iron and steel <sup>1</sup> .....	.....	xxx	261,992	xxx	182,558
	Fabricated structural iron and steel for sale to other companies:					
3441311	For ships, boats, and barges:					
	Quantity reported.....	Short tons.....	44,590	20,928	39,818	15,055
	Quantity not reported.....	.....	xxx	4,347	...	...
3441341	For transmission towers, substations, and other galvanized structures.....	Short tons.....	160,936	59,948	137,202	46,369
3441351	For other structures:					
	Quantity reported.....	Short tons.....	297,500	103,829	295,030	78,907
	Quantity not reported.....	.....	xxx	18,467	...	...
	Fabricated structural iron and steel for installation by the same company on the site of construction or shipbuilding:					
3441361	For ships, boats, and barges.....	Short tons.....	(NA)	37,712	(NA)	38,846
3441371	For transmission towers, substations, and other galvanized structures.....	...do.....	3,543	2,628	12,257	3,184
3441381	For other structures:					
	Quantity reported.....	...do.....	64,366	36,495	...	...
	Quantity not reported.....	.....	xxx	7,638	xxx	30,197
3441000	Structural and ornamental products, nsk.....	.....	xxx	130,111	xxx	39,142
3442--	Metal doors, sash, and trim, total.....	.....	xxx	951,661	xxx	657,022
34421--	Metal doors and frames <sup>1</sup> .....	No. of units.....	4,038,890	192,389	xxx	149,836
	Metal doors, excluding combination screen and storm:					
	Industrial:					
3442112	Overhead.....	...do.....	29,759	12,286	}	(NA)
3442117	All other:					
	Quantity reported.....	...do.....	171,358	17,915		
	Quantity not reported.....	.....	xxx	5,807		
	Residential:					
	Garage:					
3442122	Iron and steel.....	No. of units.....	175,404	10,456	}	106,574
3442123	Nonferrous.....	...do.....	113,075	5,601		
3442127	All other.....	...do.....	558,559	21,416		
	Commercial and institutional:					
3442132	Iron and steel:					
	Quantity reported.....	...do.....	532,604	34,930	}	(NA)
	Quantity not reported.....	.....	xxx	4,479		
3442137	Nonferrous:					
	Quantity reported.....	No. of units.....	155,701	17,609		
	Quantity not reported.....	.....	xxx	6,914		
3442141	Metal door frames (including trim sold as integral part of door frame).....	No. of units.....	2,080,377	36,443	(NA)	29,549
3442100	Metal doors and door frames, nsk.....	.....	xxx	18,533	xxx	13,713

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3442---	Metal doors, sash, and trim--Continued					
34422--	Metal window sash and frames <sup>1</sup> .....		xxx	285,311	xxx	206,224
	Window sash and frame (excluding combination screen and storm sash):					
3442211	Iron and steel.....	No. of units....	(NA)	94,172	6,439,400	86,234
3442251	Nonferrous metal:					
	Quantity reported.....	...do.....	7,782,207	148,374	4,718,406	94,406
	Quantity not reported.....		xxx	22,925	xxx	16,337
3442200	Metal window sash and frames, nsk.....		xxx	19,840	xxx	9,247
34423--	Metal molding and trim, and store fronts.....		xxx	97,283	xxx	68,131
3442311	Metal molding and trim.....		xxx	78,170	xxx	53,310
3442351	Metal store fronts, sold complete at factory.....		xxx	12,719	xxx	11,853
3442300	Metal molding and trim, and store fronts, not specified by type.....		xxx	6,394	xxx	2,968
34424--	Metal storm sash and combination screen and storm sash and doors <sup>1</sup> .....		xxx	231,510	xxx	169,794
3442411	Metal storm sash.....		xxx	6,733	xxx	12,757
3442431	Metal combination screen and storm sash:					
	Quantity reported.....	No. of units....	9,969,302	111,156	6,164,104	75,220
	Quantity not reported.....		xxx	12,196	xxx	10,580
3442451	Metal combination screen and storm doors.....	No. of units....	2,736,065	62,101	(NA)	47,090
3442400	Metal storm sash, combination screen and storm sash and doors, and parts, nsk.....		xxx	39,324	xxx	24,147
34425--	Metal windows and doors (except combination) and metal weather strip <sup>1</sup> ...		xxx	64,611	xxx	47,929
3442511	Screen doors, metal:					
	Quantity reported.....	No. of units....	437,439	4,838	} (NA)	2,356
	Quantity not reported.....		xxx	767		
3442531	Window screens, with metal frames, including tension and roll types:					
	Quantity reported.....	No. of units....	14,799,049	33,833	12,650,000	31,154
	Quantity not reported.....		xxx	7,476	...	...
3442551	Weatherstrip, metal:					
	Quantity reported.....	1,000 linear ft.	263,042	12,868	} (NA)	14,419
	Quantity not reported.....		xxx	4,829		
3442000	Metal doors, sash, frames, molding, and trim, nsk.....		xxx	80,557	xxx	15,108
3443---	Fabricated plate work (boiler shops), total.....		xxx	1,613,999	xxx	1,234,427
34431--	Heat exchangers and steam condensers.....		xxx	187,243	xxx	162,757
	Heat exchangers, closed types, industrial:					
3443111	Bare tube.....	1,000 sq. ft. of heat.trans.surf.	14,635	103,440	(NA)	94,823
3443115	Fin tube.....		(NA)	32,769	(NA)	34,398
3443151	Steam condensers.....		xxx	48,509	xxx	33,536
3443100	Heat exchangers and steam condensers, nsk.....		xxx	2,525	...	...
34432--	Fabricated steel plate <sup>1</sup> .....		xxx	259,265	xxx	174,561
	Fabricated steel plate (factory assembled or formed and prepared for field erection):					
3443211	For large diameter pipe (over 36" diameter for pipe lines, penstocks, tunnel linings, etc.).....	Short tons.....	127,466	41,164	141,265	42,515
3443298	Fabricated steel plates for other purposes:					
	Quantity reported.....	...do.....	282,900	150,224	...	...
	Quantity not reported.....		xxx	37,955	xxx	125,270
3443200	Fabricated steel plate, nsk.....		xxx	29,922	xxx	6,776
34433--	Steel power boilers, parts, and attachments (over 15 P.S.I. steam working pressure) <sup>1</sup> .....		xxx	409,549	xxx	264,831
3443312	Water tube boilers.....	No. of units....	2,152	276,324	} 13,637	224,240
3443332	Fire tube boilers.....	...do.....	7,247	20,185		
3443352	Parts and attachments for steel power boilers (sold separately).....		xxx	109,063	xxx	40,591
3443300	Steel power boilers, parts, and attachments (over 15 P.S.I. steam working pressure), nsk.....		xxx	3,977	...	...
34434--	Gas cylinders and other boiler shop products.....		xxx	125,031	xxx	136,061
	Gas cylinders:					
3443411	For liquefied petroleum gas.....	Number.....	244,330	5,560	999,880	15,633
3443419	Other gas cylinders.....	...do.....	989,946	23,836	993,638	13,940
3443431	Stacks (smoke or other).....		(NA)	5,257	(NA)	5,880
3443451	Weldments.....	Short tons.....	(NA)	40,878	115,712	41,792
3443498	Other steel plate products.....		(NA)	37,622	(NA)	58,916
3443400	Gas cylinders and other boiler shop products, nsk.....		xxx	11,878	...	...

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3443-- 34435--	Fabricated plate work (boiler shops)--Continued Metal tanks, complete at factory (standard line, pressure and non-pressure) and metal septic tanks <sup>1</sup> .....	.....	xxx	269,006	xxx	228,692
	Nonpressure tanks:					
	Bulk storage (including above ground, underground, and inside storage tanks):					
	Carbon steel:					
3443511	6,000 gallon or less capacity.....	No. of units....	210,673	44,398	197,361	28,609
3443513	Over 6,000 gallon capacity.....	..do.....	21,917	20,880	17,670	17,717
3443515	Alloy and stainless steel, nickel, aluminum, etc.....	..do.....	4,207	7,607	3,049	4,248
3443521	Basement oil storage tanks.....	..do.....	277,349	6,885	386,050	10,089
3443525	Oil field, bolted.....	..do.....	5,739	10,553	10,110	15,774
3443527	Farm storage tanks, with or without supports.....	..do.....	(NA)	11,191	122,429	10,870
3443529	Other nonpressure tanks, except septic tanks.....	..do.....	(NA)	14,314	(NA)	25,168
	Pressure tanks:					
3443533	Liquefied petroleum gas tanks (under 3,000 gallon capacity):					
	Quantity reported.....	No. of units....	170,550	30,529	203,378	30,823
	Quantity not reported.....	.....	xxx	5,358	...	...
3443535	Air receivers:					
	Quantity reported.....	No. of units....	84,320	5,641	84,417	4,004
	Quantity not reported.....	.....	xxx	737	...	...
3443538	Other pressure tanks, including anhydrous ammonia (under 3,000 gallon capacity) but excluding range boilers, expansion tanks, hot-water storage tanks and tanks for water heaters sold separately.....	.....	xxx	14,391	xxx	36,658
	Truck tanks (for delivery of fluids, excluding trailer tanks) not including fuel supply tanks for motor vehicles (gas tanks):					
3443541	For butane and propane.....	.....	(NA)	3,891	(NA)	4,580
3443543	For liquid fuels, except butane and propane.....	No. of units....	3,353	9,281	(NA)	11,283
3443545	For other fluids.....	.....	(NA)	7,738	(NA)	3,806
3443571	Septic tanks, metal:					
	Quantity reported.....	No. of units....	63,680	2,940	116,000	4,344
	Quantity not reported.....	.....	xxx	753	...	...
3443500	Metal tanks, nsk.....	.....	xxx	71,919	xxx	20,719
34436--	Metal tanks and vessels, custom fabricated at the factory <sup>1</sup> .....	.....	xxx	293,828	xxx	258,866
	Pressure vessels and tanks (1/4" and over and over 24" outside diameter and not less than 5 cu. ft. capacity) including process vessels, tanks, and kettles for refineries, chemical plants, paper mills, and other processing industries:					
3443611	Carbon steel:					
	Quantity reported.....	Short tons.....	130,910	79,206	172,717	77,269
	Quantity not reported.....	.....	xxx	12,615	...	...
3443613	Alloy and stainless steel, nickel, aluminum, etc.:					
	Quantity reported.....	Short tons.....	16,077	23,843	14,758	21,751
	Quantity not reported.....	.....	xxx	3,675	...	...
3443615	Liquefied petroleum gas tanks, 3,000 gallon capacity and over.....	Short tons.....	16,288	9,023	26,477	6,275
3443618	All other tanks, and vessels, custom fabricated at the factory (including anhydrous ammonia tanks 3,000 gallon capacity and over)...	..do.....	(NA)	21,131	*11,240	*2,725
	Metal tanks and vessels, custom fabricated and field erected:					
	Bulk storage tanks:					
3443631	Water, including elevated.....	..do.....	(NA)	42,610	108,355	27,056
3443632	Petroleum and petroleum products.....	..do.....	242,566	61,093	394,211	70,392
3443633	Other.....	.....	(NA)	22,495	(NA)	9,833
3443635	Gas holders.....	.....	(NA)	22,495	(NA)	1,793
	Pressure vessels and tanks, including process vessels, tanks, and kettles for refineries, chemical plants, paper mills, and other processing industries:					
3443651	Carbon steel:					
	Quantity reported.....	Short tons.....	32,460	12,790	78,232	31,073
	Quantity not reported.....	.....	xxx	1,910	xxx	2,566
3443659	Alloy and stainless steel, nickel, aluminum, etc.					
	Quantity reported.....	Short tons.....	1,992	3,437	3,323	5,036
	Quantity not reported.....	.....	...	...	xxx	3,097
3443000	Boiler shop products, nsk.....	.....	xxx	70,077	xxx	14,322
3444--	Sheet-metal work, total.....	.....	xxx	1,008,471	xxx	727,620
34441--	Sheet metal roofing and siding and roof drainage equipment <sup>1</sup> .....	.....	xxx	185,775	xxx	132,957
	Roofing:					
3444111	Steel, all types.....	Short tons.....	292,138	69,081	345,955	59,771
3444113	Aluminum, all types.....	..do.....	(NA)	18,587	25,122	18,468
3444115	Other metals, all types.....	.....	xxx	1,462	xxx	544

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3444---	Sheet-metal work--Continued					
34441--	Sheet-metal roofing and siding and roof drainage equipment <sup>1</sup> --Continued					
	Metal siding:					
3444116	Steel.....	Short tons.....	25,946	7,798	(NA)	5,998
3444117	Aluminum.....	..do.....	(NA)	51,110	22,481	19,720
3444119	Other metals, all types.....	.....	xxx	1,394	xxx	168
	Roof drainage equipment (including eave troughs, etc.):					
3444123	Steel:					
	Quantity reported.....	Short tons.....	68,101	21,847	58,490	18,093
	Quantity not reported.....	.....	xxx	4,855	xxx	4,437
3444127	Copper:					
	Quantity reported.....	Short tons.....	2,187	3,295	...	...
	Quantity not reported.....	.....	xxx	680	xxx	3,059
3444129	Aluminum.....	.....	xxx	5,666	xxx	2,699
3444211	Culverts, flumes, irrigation pipes, and similar products.....	.....	xxx	126,878	xxx	94,061
34443--	Other sheet-metal work.....	.....	xxx	485,913	xxx	408,825
3444311	Cornices and skylights.....	.....	xxx	4,028	xxx	4,868
3444315	Roof ventilators.....	.....	xxx	20,420	xxx	14,420
3444331	Furnace smoke pipe elbows, ducts and fittings.....	.....	xxx	60,103	xxx	37,656
3444335	Stove pipes and elbows.....	.....	xxx	5,623	xxx	7,146
	Bins and vats:					
3444362	Grain.....	.....	xxx	24,786	}	xxx
3444364	Other.....	.....	xxx	5,930		
3444365	Restaurant, hotel, and kitchen sheet-metal equipment such as table tops, drainboard tops, etc.....	.....	xxx	43,754	xxx	35,667
3444371	Metal awnings and canopies (including assembled or unassembled prefabricated types).....	.....	xxx	35,803	xxx	34,433
3444381	Air-conditioning ducts, including dust collector ducts (including ventilating).....	.....	xxx	80,534	xxx	59,901
3444385	Metal car ports and patio roofs (including assembled and unassembled prefabricated types).....	.....	xxx	2,430	}	xxx
3444398	Other sheet-metal work.....	.....	xxx	202,502		
3444000	Sheet-metal work, nsk.....	.....	xxx	209,905	xxx	91,777
3449---	Architectural and miscellaneous metal work.....	.....	xxx	935,566	xxx	621,818
34491--	Ornamental and structural metal work <sup>1</sup> .....	.....	xxx	332,941	xxx	265,349
	Iron and steel:					
3449111	Grille work.....	.....	(NA)	8,754	(NA)	19,175
3449113	Fences and gates, other than wire.....	Short tons.....	50,385	9,654	(NA)	7,404
3449115	Stairs, staircases, fire escapes and railings:					
	Quantity reported.....	..do.....	97,235	51,437	123,053	41,415
	Quantity not reported.....	.....	xxx	12,066	xxx	15,523
3449117	Open steel flooring (grating-welded, riveted, and pressure locked):					
	Quantity reported.....	Short tons.....	106,508	29,740	88,590	28,674
	Quantity not reported.....	.....	xxx	6,964	...	...
3449119	Other.....	.....	(NA)	97,090	(NA)	94,216
	Nonferrous metal:					
3449132	Aluminum.....	Short tons.....	(NA)	53,345	}	22,157
3449139	All other.....	..do.....	(NA)	9,528		
3449100	Ornamental and structural metal works, nsk.....	.....	xxx	54,363	xxx	34,820
34492--	Prefabricated and portable metal buildings and parts.....	.....	xxx	195,123	xxx	116,023
	Prefabricated and portable metal buildings, complete units (in sections or panels):					
3449215	Grain storage buildings (including farm and commercial types).....	Number.....	20,103	44,129	( <sup>5</sup> )	( <sup>5</sup> )
3449216	Farm buildings (livestock shelters, etc.).....	..do.....	26,195	31,275	38,601	24,930
3449218	Other prefabricated and portable metal buildings (includes utility buildings, dwellings, garages, etc.).....	..do.....	(NA)	83,571	<sup>5</sup> 42,885	<sup>5</sup> 77,197
3449251	Panels, parts, or sections for prefabricated buildings, not sold as a complete unit (including sandwich and single face panels).....	Short tons.....	56,439	26,061	(NA)	9,057
3449200	Prefabricated and portable metal buildings and parts, nsk.....	.....	xxx	10,087	xxx	4,839

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3449-- 34495--	Architectural and miscellaneous metal work--Continued					
	Miscellaneous metal building materials.....	.....	xxx	407,502	xxx	240,446
	Metal plaster bases:					
3449511	Expanded metal lath.....	1,000 sq. yds...	80,591	25,257	68,388	23,882
3449532	Metal plaster base accessories (including corner beads, screeds, grounds, etc.).....	.....	xxx	27,210	xxx	17,853
3449542	Fabricated bar joists.....	Short tons.....	296,874	69,475	272,314	53,275
3449550	Fabricated concrete reinforcing bars.....	...do.....	1,232,329	217,432	903,608	130,361
3449571	Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels) excluding panels sold with or for prefabricated metal buildings.....	1,000 sq. ft....	23,687	24,300	}	15,075
3449500	Miscellaneous metal building materials, nsk.....	.....	xxx	43,828		

NA Not available.

<sup>1</sup>For certain products value data only were reported by some establishments. In those instances where such values amounted to less than 10 percent of the total value of the product, an estimated quantity figure has been included in the total quantity for the product. For comparative purposes, 1954 data have been treated in the same manner.

<sup>2</sup>Represents fabricated structural steel for buildings, bridges, and other uses not specified by kind.

<sup>3</sup>Does not include structural steel fabricated for own use by establishments building ships.

<sup>4</sup>For 1954, figures represent only anhydrous ammonia tanks of 3,000 gallon capacity and over.

<sup>5</sup>For 1954, data for grain storage buildings are included with "Other prefabricated and portable buildings," product code 3449218.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Shipments		Product class, region, and State	Value of shipments	
<u>Fabricated structural steel for buildings (34411):</u>		<u>Fabricated structural steel for bridges (34412)--</u>	Quantity	Value	<u>Metal doors and frames</u>		
United States, total:		Continued	(short tons)	(\$1,000)	(except storm doors) (34421)--Continued		
1958.....	930,399		1958 <sup>1</sup>		United States, total-- Continued		
1954.....	682,858				1951.....	101,898	
	1958 <sup>1</sup>	West North Central.....	60,251	21,933	1947.....	52,074	
New England.....	26,757	Minnesota.....	6,434	2,102		1958 <sup>1</sup>	1954
Massachusetts.....	11,687	Iowa.....	16,782	6,033	New England.....	6,394	4,837
Rhode Island.....	1,861	Missouri.....	13,762	5,655	Massachusetts.....	3,176	3,357
Connecticut.....	9,716	Kansas.....	13,747	5,285	Connecticut.....	2,462	( <sup>2</sup> )
Middle Atlantic.....	275,200	South Atlantic.....	45,676	14,517	Middle Atlantic.....	62,861	50,681
New York.....	76,505	Virginia.....	24,330	7,869	New York.....	43,172	33,749
New Jersey.....	33,828	Georgia.....	3,649	1,349	New Jersey.....	1,652	1,072
Pennsylvania.....	164,867	East South Central.....	24,450	9,813	Pennsylvania.....	18,037	15,860
East North Central.....	210,785	Tennessee.....	7,498	2,279	East North Central.....	53,492	51,804
Ohio.....	48,960	Alabama.....	16,793	7,493	Ohio.....	15,842	18,665
Indiana.....	38,437	West South Central.....	65,218	16,834	Indiana.....	6,410	6,998
Illinois.....	66,639	Oklahoma.....	15,377	4,784	Illinois.....	9,773	5,258
Michigan.....	41,823	Texas.....	39,248	9,512	Michigan.....	21,023	20,033
Wisconsin.....	14,926	Mountain.....	12,751	3,867	West North Central.....	6,238	5,391
West North Central.....	73,300	Pacific.....	61,008	19,452	Minnesota.....	1,996	( <sup>2</sup> )
Minnesota.....	12,015	Washington.....	8,985	2,785	Missouri.....	3,323	3,907
Iowa.....	15,959	Oregon.....	3,980	1,387	South Atlantic.....	17,746	11,472
Missouri.....	28,205	California.....	48,043	15,280	Virginia.....	4,113	3,274
Nebraska.....	4,570		Value of		Florida.....	7,284	4,906
Kansas.....	10,555	<u>Other fabricated structural</u>	shipments		East South Central.....	8,861	3,842
South Atlantic.....	81,758	<u>iron and steel (34413):</u>			Alabama.....	1,931	( <sup>3</sup> )
Maryland.....	12,110	United States, total:			West South Central.....	6,577	1,503
Virginia.....	22,370	1958.....		261,992	Arkansas.....	1,520	( <sup>3</sup> )
West Virginia.....	4,072	1954.....		182,558	Louisiana.....	2,544	( <sup>3</sup> )
North Carolina.....	13,508		1958 <sup>1</sup>		Texas.....	1,925	( <sup>3</sup> )
South Carolina.....	12,805	New England.....		4,536	Mountain.....	1,653	(NA)
Georgia.....	5,977	Massachusetts.....		2,378	Pacific.....	28,567	19,634
Florida.....	10,064	Middle Atlantic.....		79,763	Oregon.....	2,276	2,048
East South Central.....	52,756	New York.....		15,131	California.....	25,915	16,988
Kentucky.....	2,762	New Jersey.....		9,650			
Tennessee.....	14,686	Pennsylvania.....		55,002	<u>Metal window sash and frames</u>		Value of
Alabama.....	31,528	East North Central.....		46,201	(except storm sash)(34422):		shipments
Mississippi.....	3,780	Ohio.....		16,910	United States, total:		
West South Central.....	79,763	Indiana.....		7,585	1958.....		285,311
Arkansas.....	4,644	Illinois.....		11,387	1954.....		206,224
Louisiana.....	10,577	Michigan.....		2,700	1953.....		152,268
Oklahoma.....	12,298	Wisconsin.....		7,619	1952.....		127,102
Texas.....	52,244	West North Central.....		8,934	1951.....		142,210
Mountain.....	26,452	Minnesota.....		1,905	1950.....		147,619
Colorado.....	8,983	Missouri.....		3,218	1947.....		90,780
New Mexico.....	1,394	Kansas.....		3,396		1958 <sup>1</sup>	1954
Arizona.....	7,333	South Atlantic.....		13,618	New England.....	8,918	1,776
Utah.....	6,611	Virginia.....		6,296	Connecticut.....	1,921	( <sup>3</sup> )
Pacific.....	103,628	North Carolina.....		1,204	Middle Atlantic.....	34,948	45,075
Washington.....	13,609	Florida.....		2,853	New York.....	13,568	26,122
Oregon.....	4,541	East South Central.....		8,605	New Jersey.....	4,208	2,554
California.....	85,478	Tennessee.....		1,033	Pennsylvania.....	17,172	16,399
	Shipments	Alabama.....		6,646	East North Central.....	87,569	79,624
<u>Fabricated structural steel</u>	Quantity	West South Central.....		43,620	Ohio.....	26,261	29,190
<u>for bridges (34412):	(short	Oklahoma.....		16,657	Indiana.....	9,373	9,624
United States, total:	tons)	Texas.....		21,179	Illinois.....	15,158	12,455
1958.....	(NA)	Mountain.....		5,949	Michigan.....	32,871	25,474
1954.....	1958 <sup>1</sup>	Utah.....		2,387	Wisconsin.....	3,906	2,879
New England.....	45,989	Pacific.....		50,766	West North Central.....	21,130	12,341
Connecticut.....	15,559	California.....		38,569	Minnesota.....	1,373	( <sup>3</sup> )
Middle Atlantic.....	320,608		Value of		Missouri.....	18,621	10,244
New York.....	43,277	<u>Metal doors and frames</u>	shipments		South Atlantic.....	63,423	30,416
New Jersey.....	54,673	(except storm doors)			Virginia.....	2,400	( <sup>2</sup> )
Pennsylvania.....	222,658	(34421):			Florida.....	58,716	26,513
East North Central.....	207,560	United States, total:			East South Central.....	10,488	8,455
Ohio.....	42,122	1958.....		192,389	Mississippi.....	2,854	( <sup>3</sup> )
Indiana.....	93,411	1954.....		149,856			
Illinois.....	47,907	1953.....		117,689			
Michigan.....	12,922	1952.....		105,174			
Wisconsin.....	11,198						



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Metal window sash and frames</u> (except storm sash) (34422)--Continued	1958 <sup>1</sup>	1954	<u>Metal combination screen and</u> <u>storm sash and doors</u> (34424)--Continued	1958 <sup>1</sup>	1954	<u>Fabricated steel plate</u> (34432)--Continued	1958 <sup>1</sup>	1954
West South Central.....	21,379	7,152	West South Central.....	2,214	2,133	New England.....	4,975	10,643
Texas.....	16,886	( <sup>2</sup> )	Texas.....	1,810	( <sup>2</sup> )	Massachusetts.....	2,322	( <sup>2</sup> )
Mountain.....	3,842	3,562	Mountain.....	2,266	1,351	Connecticut.....	1,934	( <sup>3</sup> )
Pacific.....	33,614	17,823	Colorado.....	1,175	( <sup>3</sup> )	Middle Atlantic.....	63,178	39,632
Washington.....	6,243	( <sup>2</sup> )	Pacific.....	7,209	1,142	New York.....	7,600	3,485
California.....	26,821	13,803	California.....	6,071	( <sup>3</sup> )	New Jersey.....	4,004	3,837
<u>Metal molding and trim and</u> <u>store fronts (34425):</u>	Value of shipments		<u>Metal window and door</u> <u>screens (except combination)</u> <u>and metal weather strip</u> (34425):	Value of shipments		Pennsylvania.....	51,574	32,310
United States, total:			United States, total:			East North Central.....	38,274	31,338
1958.....	97,283		1958.....	64,611		Ohio.....	24,160	13,675
1957.....	104,457		1954.....	47,929		Indiana.....	2,977	1,834
1956.....	92,392					Illinois.....	5,969	8,479
1955.....	85,168					Michigan.....	3,408	6,119
1954.....	68,131					Wisconsin.....	1,760	1,230
1947.....	46,278					West North Central.....	12,413	8,197
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>		Minnesota.....	1,438	1,145
New England.....	5,384	2,321	New England.....	1,688		Missouri.....	7,552	3,326
Middle Atlantic.....	13,506	14,621	Middle Atlantic.....	10,721		Kansas.....	1,606	( <sup>3</sup> )
New York.....	6,377	6,351	New York.....	4,069		South Atlantic.....	10,197	10,046
East North Central.....	42,875	40,583	New Jersey.....	1,320		Maryland.....	4,092	4,231
Ohio.....	4,627	5,057	Pennsylvania.....	5,332		East South Central.....	6,070	2,918
Indiana.....	5,361	( <sup>2</sup> )	East North Central.....	20,593		Kentucky.....	1,120	( <sup>3</sup> )
Illinois.....	17,759	12,478	Ohio.....	6,486		Alabama.....	4,684	1,710
Michigan.....	13,636	18,102	Indiana.....	1,316		West South Central.....	21,041	11,818
Wisconsin.....	1,492	( <sup>3</sup> )	Illinois.....	11,834		Texas.....	15,878	8,285
South Atlantic.....	19,739	3,677	West North Central.....	4,147		Mountain.....	9,778	4,575
Florida.....	2,926	( <sup>3</sup> )	South Atlantic.....	11,114		Colorado.....	3,233	( <sup>2</sup> )
East South Central.....	2,749	( <sup>2</sup> )	Georgia.....	1,215		Utah.....	5,396	( <sup>2</sup> )
West South Central.....	2,322	1,897	Florida.....	8,799		Pacific.....	93,339	55,327
Pacific.....	10,281	4,153	East South Central.....	4,297		Washington.....	2,010	1,442
California.....	5,763	2,749	Alabama.....	2,857		Oregon.....	6,892	7,783
<u>Metal combination screen and</u> <u>storm sash and doors</u> (34424):	Value of shipments		West South Central.....	6,022		California.....	84,437	46,101
United States, total:			West.....	6,029		<u>Steel power boilers, parts,</u> <u>and attachments (34433):</u>	Value of shipments	
1958.....	231,510		California.....	5,789		United States, total:		
1954.....	169,794		<u>Heat exchangers and steam</u> <u>condensers (34431):</u>	Value of shipments		1958.....	409,549	
1951.....	80,302		United States, total:			1957.....	361,394	
1950.....	65,496		1958.....	187,243		1956.....	256,170	
1947.....	27,393		1957.....	213,493		1955.....	214,413	
	1958 <sup>1</sup>	1954	1956.....	152,932		1954.....	264,831	
New England.....	12,658	11,353	1955.....	124,287		1952.....	248,733	
Maine.....	1,171	( <sup>2</sup> )	1954.....	162,757		1951.....	186,989	
Massachusetts.....	6,911	6,450	1953.....	156,168		1950.....	140,451	
Rhode Island.....	1,638	1,354	1952.....	133,477		1947.....	131,163	
Connecticut.....	2,793	2,490	1951.....	101,238			1958 <sup>1</sup>	1954
Middle Atlantic.....	86,132	62,172	1950.....	76,621		New England.....	1,798	( <sup>2</sup> )
New York.....	35,777	23,387	1947.....	63,296		Middle Atlantic.....	121,382	66,290
New Jersey.....	18,802	14,216		1958 <sup>1</sup>	1954	Pennsylvania.....	61,392	39,797
Pennsylvania.....	31,553	24,569	Middle Atlantic.....	104,114	90,200	East North Central.....	146,493	114,880
East North Central.....	78,955	74,098	New York.....	30,714	29,361	Illinois.....	7,268	( <sup>2</sup> )
Ohio.....	29,352	35,164	New Jersey.....	28,167	25,975	West North Central.....	9,341	( <sup>2</sup> )
Indiana.....	3,705	3,901	Pennsylvania.....	45,233	34,863	Pacific.....	2,518	( <sup>2</sup> )
Illinois.....	22,487	11,536	East North Central.....	40,046	42,771	California.....	2,049	( <sup>2</sup> )
Michigan.....	22,056	20,563	Ohio.....	20,073	18,567	<u>Gas cylinders and other</u> <u>boiler shop products</u> (34434):	Value of shipments	
Wisconsin.....	1,355	2,934	Illinois.....	2,252	( <sup>2</sup> )	United States, total:		
West North Central.....	21,741	7,234	Wisconsin.....	17,631	19,744	1958.....	125,031	
Minnesota.....	4,618	1,376	West South Central.....	16,713	( <sup>2</sup> )	1957.....	182,230	
Iowa.....	8,212	( <sup>3</sup> )	Texas.....	9,845	( <sup>2</sup> )	1956.....	176,633	
Missouri.....	4,387	2,549	Pacific.....	16,632	13,541	1955.....	135,438	
Kansas.....	4,044	2,228	<u>Fabricated steel plate</u> (34432):	Value of shipments		1954.....	136,161	
South Atlantic.....	8,900	6,116	United States, total:			1953.....	130,797	
Delaware.....	1,059	( <sup>3</sup> )	1958.....	259,265		1952.....	137,104	
Maryland.....	3,382	2,892	1957.....	228,463		1951.....	115,696	
Virginia.....	1,275	( <sup>3</sup> )	1956.....	246,189		1950.....	85,419	
Florida.....	1,996	( <sup>2</sup> )	1955.....	148,439		1947.....	133,518	
East South Central.....	11,435	4,023	1954.....	174,561			1958 <sup>1</sup>	1954
Kentucky.....	7,283	3,173	1953.....	345,685		New England.....	5,609	6,098
			1952.....	303,766		Massachusetts.....	4,133	4,470
			1951.....	276,610				
			1950.....	173,926				
			1947.....	52,786				

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years-Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Gas cylinders and other boiler shop products (34434)--Continued</u>	1958 <sup>1</sup>	1954	<u>Metal tanks and vessels, custom fabricated at the factory (34436):</u>		<u>Culverts, flumes, irrigation pipes, etc. (34442)--Continued</u>	1958 <sup>1</sup>
Middle Atlantic.....	51,274	68,707	United States, total:		East North Central.....	42,156
New York.....	5,566	22,362	1958.....	293,828	Ohio.....	29,039
New Jersey.....	4,509	3,644	1954.....	258,866	Indiana.....	6,167
Pennsylvania.....	41,199	42,700		1958 <sup>1</sup>	Illinois.....	2,363
East North Central.....	47,379	42,140	New England.....	5,718	Michigan.....	1,594
Ohio.....	9,017	8,797	Massachusetts.....	5,213	Wisconsin.....	2,993
Indiana.....	9,771	5,139	Middle Atlantic.....	72,166	West North Central.....	18,736
Illinois.....	9,847	5,040	New York.....	3,054	Minnesota.....	4,735
Michigan.....	5,435	10,041	New Jersey.....	9,708	Iowa.....	4,142
Wisconsin.....	13,309	13,121	Pennsylvania.....	59,404	Missouri.....	1,643
West North Central.....	3,464	4,087	East North Central.....	59,473	Nebraska.....	5,065
Missouri.....	2,272	2,521	Ohio.....	17,302	South Atlantic.....	13,075
South Atlantic.....	4,009	1,466	Indiana.....	8,212	Virginia.....	1,860
Virginia.....	2,004	( <sup>a</sup> )	Illinois.....	19,412	North Carolina.....	1,861
East South Central.....	1,752	4,205	Michigan.....	2,530	East South Central.....	7,619
West South Central.....	1,602	2,254	Wisconsin.....	12,017	Tennessee.....	3,404
Texas.....	1,179	1,707	West North Central.....	6,597	West South Central.....	6,699
Mountain.....	3,207	( <sup>a</sup> )	Missouri.....	2,731	Oklahoma.....	2,188
Pacific.....	6,735	6,944	Kansas.....	2,934	Texas.....	3,406
California.....	6,057	6,349	South Atlantic.....	17,704	Mountain.....	8,801
<u>Metal tanks, complete at factory (standard line, pressure and nonpressure) and metal septic tanks (34435):</u>	Value of shipments		Maryland.....	1,095	Pacific.....	17,798
United States, total:			Georgia.....	4,561	California.....	9,763
1958.....		269,006	East South Central.....	27,693	<u>Other sheet metal work (34443):</u>	Value of shipments
1954.....		228,692	Tennessee.....	3,250	United States, total:	
	1958 <sup>1</sup>		West South Central.....	55,519	1958.....	485,913
New England.....		7,227	Texas.....	35,667	1954.....	408,825
Massachusetts.....		6,208	Mountain.....	13,255		1958 <sup>1</sup>
Middle Atlantic.....		35,342	Pacific.....	35,703	New England.....	26,129
New York.....		13,728	California.....	32,957	Massachusetts.....	20,370
New Jersey.....		9,946	<u>Sheet metal roofing and siding and roof drainage equipment (34441):</u>	Value of shipments	Connecticut.....	4,234
Pennsylvania.....		11,668	United States, total:		Middle Atlantic.....	111,711
East North Central.....		60,744	1958.....	185,775	New York.....	48,358
Ohio.....		11,468	1954.....	132,957	New Jersey.....	23,054
Indiana.....		6,685		1958 <sup>1</sup>	Pennsylvania.....	40,299
Illinois.....		21,497	New England.....	1,435	East North Central.....	144,853
Michigan.....		7,300	Middle Atlantic.....	41,837	Ohio.....	55,447
Wisconsin.....		13,794	New Jersey.....	1,223	Indiana.....	9,327
West North Central.....		41,898	Pennsylvania.....	39,788	Illinois.....	30,614
Minnesota.....		6,393	East North Central.....	99,943	Michigan.....	27,275
Iowa.....		5,949	Ohio.....	46,224	Wisconsin.....	22,190
Missouri.....		24,549	Indiana.....	2,621	West North Central.....	63,683
Nebraska.....		2,105	Illinois.....	17,029	Minnesota.....	11,886
Kansas.....		1,834	Michigan.....	16,195	Iowa.....	8,889
South Atlantic.....		24,466	Wisconsin.....	17,874	Missouri.....	32,106
Delaware.....		3,632	West North Central.....	5,246	Nebraska.....	6,065
Maryland.....		3,397	Missouri.....	3,516	Kansas.....	1,602
Virginia.....		2,742	South Atlantic.....	6,566	South Atlantic.....	33,272
North Carolina.....		4,161	North Carolina.....	1,942	Maryland.....	5,380
Georgia.....		4,069	East South Central.....	10,427	Virginia.....	3,074
Florida.....		4,094	West South Central.....	6,651	West Virginia.....	1,703
East South Central.....		9,515	Texas.....	5,727	North Carolina.....	4,384
Kentucky.....		2,842	Pacific.....	13,416	Georgia.....	5,119
Alabama.....		3,187	Washington.....	2,721	Florida.....	12,709
West South Central.....		56,223	Oregon.....	2,028	East South Central.....	8,909
Arkansas.....		2,215	California.....	8,667	Kentucky.....	2,418
Louisiana.....		4,132	<u>Culverts, flumes, irrigation pipes, etc. (34442):</u>	Value of shipments	Tennessee.....	2,238
Oklahoma.....		18,337	United States, total:		Alabama.....	3,463
Texas.....		26,437	1958.....	126,878	West South Central.....	18,705
Mountain.....		11,625	1954.....	94,061	Louisiana.....	2,163
New Mexico.....		1,138		1958 <sup>1</sup>	Oklahoma.....	2,029
Pacific.....		21,966	New England.....	6,560	Texas.....	14,260
Washington.....		2,331	Middle Atlantic.....	5,434	Mountain.....	6,070
Oregon.....		2,300	Pennsylvania.....	3,056	Colorado.....	2,655
California.....		17,336			Utah.....	1,118

See footnotes at end of table.



## FABRICATED STRUCTURAL METAL PRODUCTS

34C-27

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Ornamental and structural metal work (34491):</u>			<u>Prefabricated and portable metal buildings (including utility buildings, dwellings, garages, etc.) (34492):</u>			<u>Miscellaneous metal building materials (34493)—</u>	1958 <sup>1</sup>	1954
United States, total:			United States, total:			Continued		
1958.....	332,941		1958.....	195,123		Middle Atlantic.....	64,409	36,209
1957.....	368,916		1957.....	190,369		New York.....	14,352	8,292
1956.....	323,654		1956.....	174,253		New Jersey.....	16,914	8,989
1955.....	285,244		1955.....	142,619		Pennsylvania.....	33,143	18,928
1954.....	265,349		1954.....	116,023				
1953.....	189,354		1947.....	68,409		East North Central.....	108,087	72,992
1952.....	176,144							
1951.....	175,759					Ohio.....	39,685	34,193
1950.....	130,311					Indiana.....	1,615	2,250
1947.....	76,163					Illinois.....	46,928	26,036
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954	Michigan.....	8,801	2,713
New England.....	19,091	8,422	New England.....	8,965	4,787	Wisconsin.....	11,058	7,799
Massachusetts.....	9,128	4,846	Middle Atlantic.....	12,167	10,690			
Connecticut.....	8,709	2,161	New York.....	7,586	4,845	West North Central.....	26,922	12,680
Middle Atlantic.....	97,935	82,184	New Jersey.....	1,496	4,346	Minnesota.....	9,167	5,300
New York.....	43,568	39,930	Pennsylvania.....	3,085	(2)	Iowa.....	3,273	1,676
New Jersey.....	13,848	13,640	East North Central.....	94,402	58,624	Nebraska.....	1,883	(2)
Pennsylvania.....	40,519	28,614	Ohio.....	30,269	20,389			
East North Central.....	90,115	93,011	Illinois.....	38,131	20,962	South Atlantic.....	59,696	31,153
Ohio.....	28,627	38,292	Michigan.....	5,426	9,560	Maryland.....	15,582	10,062
Indiana.....	6,899	7,923	West North Central.....	22,591	10,381	Virginia.....	6,660	3,711
Illinois.....	27,316	24,941	Iowa.....	3,223	(3)	North Carolina.....	3,166	3,413
Michigan.....	20,815	17,572	Missouri.....	2,604	(3)	South Carolina.....	6,610	(3)
Wisconsin.....	6,458	4,282	Kansas.....	1,406	2,154	Georgia.....	2,302	(3)
West North Central.....	18,134	16,370	South Atlantic.....	6,078	2,935	Florida.....	13,145	3,766
Minnesota.....	7,547	4,920	Florida.....	3,239	(3)			
Iowa.....	2,561	1,303	East South Central.....	15,552	5,021	East South Central.....	24,828	15,615
Missouri.....	6,208	8,842	West South Central.....	14,930	9,440	Tennessee.....	4,647	1,485
Kansas.....	1,054	(3)	Texas.....	10,699	4,300	Alabama.....	18,682	13,823
South Atlantic.....	34,116	18,506	Mountain.....	2,170	(3)			
Maryland.....	8,450	2,868	Pacific.....	18,268	13,316	West South Central.....	44,879	30,830
District of Columbia.....	1,914	1,544	California.....	16,763	11,391	Arkansas.....	1,300	(3)
Virginia.....	6,000	5,159				Louisiana.....	5,687	(2)
North Carolina.....	2,780	1,886	<u>Miscellaneous metal building materials (34493):</u>	Value of shipments		Oklahoma.....	9,286	6,281
Georgia.....	2,412	1,486	United States, total:			Texas.....	28,606	20,549
Florida.....	5,257	3,056	1958.....	407,502				
East South Central.....	19,156	16,107	1957.....	347,784		Mountain.....	15,044	4,526
Kentucky.....	5,719	4,810	1956.....	351,376				
Tennessee.....	7,059	5,088	1955.....	286,806		Arizona.....	3,284	(3)
Alabama.....	5,913	6,098	1954.....	240,446		Utah.....	3,960	(2)
West South Central.....	13,903	14,021	1952.....	181,854				
Louisiana.....	1,127	(3)	1951.....	199,511		Pacific.....	55,481	31,745
Oklahoma.....	3,578	3,276	1950.....	151,445		Washington.....	6,135	4,328
Texas.....	8,857	9,506	1947.....	94,614		Oregon.....	6,262	3,774
Mountain.....	9,190	2,017				California.....	43,084	23,643
Colorado.....	1,982	(3)						
Arizona.....	2,149	(3)						
Utah.....	4,415	(3)						
Pacific.....	31,301	21,281						
Washington.....	3,570	1,393						
Oregon.....	1,994	(3)						
California.....	25,737	18,940						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 34411, Maine, New Hampshire, North Dakota, and South Dakota; 34412, Maine, Massachusetts, Rhode Island, South Dakota, Delaware, North Carolina, Arkansas, and Arizona; 34413, Rhode Island, Louisiana, Idaho, Arizona, Washington, and Oregon; 34421, Georgia, and Kentucky; 34422, Massachusetts, South Carolina, Kentucky, Alabama, Louisiana, Colorado, and Arizona; 34423, New Hampshire, Massachusetts, New Jersey, Pennsylvania, Georgia, Kentucky, Oklahoma, and Washington; 34424, Tennessee, and Alabama; 34425, Missouri and Oklahoma; 34431, Massachusetts, Connecticut, Maryland, Kentucky, Oklahoma, and California; 34432, Nebraska, Virginia, Louisiana, and Oklahoma; 34433, Connecticut, New York, New Jersey, Ohio, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Virginia, North Carolina, Georgia, Kentucky, Tennessee, Mississippi, and Texas; 34434, Connecticut, Alabama, and Utah; 34435, West Virginia, Tennessee, Mississippi, Montana, Colorado, and Utah; 34436, Delaware, Virginia, Kentucky, Alabama, Louisiana, Oklahoma, Colorado, Nevada, Washington, and Oregon; 34441, West Virginia, Kentucky, and Tennessee; 34442, Maine, Vermont, Massachusetts, New York, Kansas, Maryland, Georgia, Florida, Kentucky, Mississippi, Montana, Colorado, Arizona, Utah, Washington, and Oregon; 34443, South Dakota, and Arizona; 34491, West Virginia; 34492, Massachusetts, Indiana, Wisconsin, Minnesota, Nebraska, West Virginia, Kentucky, Alabama, Mississippi, Louisiana, Oklahoma, and Colorado; 34493, Maine, Rhode Island, Missouri, South Dakota, Kansas, West Virginia, Mississippi, and Colorado.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958

Code	Material	Unit of measure	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3441-- FABRICATED STRUC- TURAL STEEL		INDUSTRY 3442-- METAL DOORS, SASH AND TRIM		INDUSTRY 3443-- BOILER SHOP PRODUCTS		INDUSTRY 3444-- SHEET METAL WORK <sup>1</sup>		INDUSTRY 3449-- MISCELLANEOUS METAL WORK, NEC	
	Materials, containers, parts, and supplies, total.....		xxx	856,619	xxx	517,157	xxx	768,511	xxx	462,140	xxx	435,154
	Mill shapes and forms (except castings):											
	Carbon steel:											
331209	Concrete reinforcing bars	S. tons..	306,434	42,336	55,976	9,097	3,918	1,005	25,195	5,563	816,284	104,773
331211	Bars and bar shapes (except concrete reinforcing bars).....	do...	287,185	43,292								
331212	Sheet and strip.....	do...	243,327	32,114	251,980	35,089	68,942	12,103	1,003,179	160,586	258,419	38,147
331218	Tin plate, terne plate and black plate.....	do...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	24,076	4,241	(NA)	(NA)
331213	Plates.....	do...	762,855	108,118	2,210	394	1,251,393	176,922	55,129	7,735	75,010	10,462
331215	Structural shapes.....	do...	2,409,271	333,050	60,707	9,279	164,509	23,193	15,184	2,814	168,516	25,695
331217	Wire and wire products.....	do...	42,185	7,456	3,570	2,318	4,102	1,828	3,027	987	64,290	11,253
331219	All other carbon steel mill shapes and forms.....	do...	85,130	13,780	6,823	1,312	123,102	48,232	9,484	2,416	31,499	6,367
	Alloy steel (except stainless):											
331221	Bars and bar shapes.....	do...	13,718	2,679	1,020	310	7,779	1,836	2,142	551	18,695	3,698
331225	All other alloy steel mill shapes and forms.....	do...	11,747	2,284	1,690	1,426	34,125	12,998	9,692	2,288	6,429	1,638
331231	Stainless steel mill shapes and forms.....	do...	1,483	1,734	6,088	5,625	27,967	40,762	9,963	14,003	1,459	1,902
	Copper and copper-base alloy:											
363111	Insulated wire and cable.	1,000 lb. (copper content)	(D)	(D)	17	22	95	57	(D)	(D)	(D)	(D)
335111	Bare wire for electrical conduction .....	1,000 lb.	1,275	848	1,165	726	123	88	545	297	(NA)	1,343
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).	do...										
	Aluminum and aluminum-base alloy mill shapes and forms:											
335257	Sheet, plate and foil...	do...	6,986	3,399	72,005	30,160	5,025	3,092	84,230	39,075	17,585	9,181
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do...	6,568	2,937	298,496	136,713	1,458	798	10,658	5,729	27,612	14,972
	Primary metals (ingot, pig, etc.):											
331251	Pig iron.....	S. tons..	3,271	215	(D)	(D)	42,792	2,641	(NA)	(NA)	2,283	152
333411	Aluminum and aluminum-base alloy refinery shapes.....	do...	(D)	(D)	<sup>2</sup> 40,081	21,207	(D)	(D)	(NA)	(NA)	3,642	1,800
333311	Zinc and zinc-base alloy refinery shapes.....	do...	2,890	685	212	216	505	109	2,447	625	1,381	689
	Scrap:											
941011	Iron and steel (purchased only).....	do...	26,008	1,051	...	...	63,700	2,988	(NA)	(NA)	19,903	1,047
941031	Aluminum and aluminum-base alloy.....	do...	(D)	(D)	7,918	3,436	(D)	(D)	(NA)	(NA)	(NA)	560
	Castings (rough and semi-finished): <sup>2</sup>											
332011	Iron (gray and malleable).....	do...	5,858	1,677	1,547	601	17,251	4,654	1,225	550	6,767	2,300
332311	Steel.....	do...	15,587	5,622	2,555	801	7,703	4,926	3,829	842	(NA)	2,061
336121	Copper and copper-base alloy.....	1,000 lb.	272	176	153	149	1,574	1,270	207	170	581	313
336111	Aluminum and aluminum-base alloy.....	do...	1,936	1,795	20,280	11,961	(NA)	194	480	396	2,455	2,204
970099	All other materials and components, parts, containers, and supplies consumed <sup>3</sup> .....		xxx	145,063	xxx	120,429	xxx	261,880	xxx	93,988	xxx	63,720
973000	Materials, etc., nsk..		xxx	4106,308	xxx	4125,886	xxx	4104,729	xxx	4114,062	xxx	453,906

D Withheld to avoid disclosing figures for individual companies. <sup>2</sup>Revised.<sup>1</sup>Comparable data for 1954 were published in Volume II, Part 2, 1954 Census of Manufactures.<sup>2</sup>Does not include castings produced and consumed in the same establishment.<sup>3</sup>Includes values for those material items for which separate data could not be published without revealing the operations of individual companies.

The symbol, "D", appears for such items.

<sup>4</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" when separate figures for individual materials consumed were not requested, (b) total cost of materials reported for establishments which failed to report the costs of individual materials on "standard forms," and (c) discrepancies between total cost of materials and detailed materials on reports for other establishments.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3441	FABRICATED STRUCTURAL STEEL (entire industry).....	1,861	91,252	502,697	68,009	135,764	332,691	821,626	1,017,689	1,901,106	36,789
	Establishments with:										
	90% or more specialization.....	1,322	57,648	316,709	43,805	86,110	215,691	525,450	618,909	1,194,484	24,403
	75-89% specialization.....	199	12,647	69,909	9,076	18,294	43,181	110,637	145,714	257,828	3,723
34411	Fabricated structural iron and steel for buildings (primary product class of estab.).....	1,038	62,889	352,387	45,957	92,861	227,421	572,402	715,628	1,329,534	23,521
	Establishments with:										
	90% or more specialization...	548	15,755	87,354	11,433	22,698	55,489	151,987	173,346	325,638	7,306
	75-89% specialization.....	150	9,062	52,523	6,400	13,129	31,057	82,008	105,529	191,643	2,673
34412	Fabricated structural iron and steel for bridges (primary product class of estab.).....	50	9,884	53,412	7,795	15,099	37,393	93,506	117,122	224,580	3,940
	Establishments with:										
	90% or more specialization...	7	699	3,995	585	1,135	3,149	5,814	5,381	12,578	( <sup>1</sup> )
	75-89% specialization.....	12	2,107	10,264	1,779	3,108	7,294	21,716	25,637	51,740	( <sup>1</sup> )
34413	Other fabricated structural iron and steel (primary product class of estab.).....	181	10,610	58,002	8,175	16,140	39,664	91,136	112,857	211,897	5,004
	Establishments with:										
	90% or more specialization...	106	3,363	18,049	2,572	4,919	12,173	29,854	34,783	65,667	1,097
	75-89% specialization.....	12	964	5,416	707	1,507	3,559	7,523	13,824	22,938	( <sup>1</sup> )
34410	Fabricated structural steel, nsk (primary product class of estab.).....	586	7,814	38,703	6,038	11,596	28,054	64,386	71,893	134,709	4,316
	Establishments with:										
	90% or more specialization...	481	6,146	30,479	4,798	9,226	22,766	52,470	59,623	110,949	3,752
	75-89% specialization.....	27	257	1,146	211	358	918	1,697	2,013	3,732	( <sup>1</sup> )
3442	METAL DOORS, SASH, AND TRIM (entire industry).....	1,546	57,897	273,219	42,433	83,849	171,756	469,050	570,782	1,037,371	18,055
	Establishments with:										
	90% or more specialization.....	1,362	41,300	189,682	30,676	60,586	120,332	338,642	430,423	768,507	12,709
	75-89% specialization.....	73	6,904	34,952	5,005	9,836	20,811	59,467	54,090	112,993	2,327
34421	Metal doors and frames (except storm doors) (primary product class of estab.).....	244	11,921	61,617	8,643	17,479	38,589	107,755	89,963	196,738	4,238
	Establishments with:										
	90% or more specialization...	183	6,282	32,283	4,609	9,452	20,709	59,025	46,628	105,344	1,601
	75-89% specialization.....	18	2,142	10,382	1,651	3,083	6,216	16,888	11,293	28,031	778
34422	Metal window sash and frames (except storm sash) (primary product class of estab.).....	262	20,218	97,617	14,813	29,472	62,322	158,160	189,862	346,431	6,012
	Establishments with:										
	90% or more specialization...	177	9,272	43,519	6,635	13,184	26,266	71,244	94,814	166,049	3,174
	75-89% specialization.....	34	3,944	19,327	3,064	6,547	13,142	35,318	35,651	70,897	1,018
34423	Metal molding and trim, and store fronts (primary product class of estab.).....	79	4,350	22,705	3,030	6,227	13,413	39,414	50,940	90,788	1,486
	Establishments with:										
	90% or more specialization...	61	2,842	13,777	2,194	4,524	9,243	26,895	35,222	62,170	1,279
	75-89% specialization.....	7	505	2,748	334	689	1,820	4,963	6,387	11,702	( <sup>1</sup> )
34424	Metal combination screen and storm sash and doors (primary product class of estab.).....	577	13,220	58,133	9,422	18,428	34,248	99,248	156,637	255,865	3,591
	Establishments with:										
	90% or more specialization...	457	9,576	40,966	7,047	13,628	25,090	73,974	113,843	188,368	2,234
	75-89% specialization.....	54	1,328	6,102	936	1,860	3,671	10,463	14,641	25,276	( <sup>1</sup> )
34425	Metal window and door screens (except combination) and metal weather strip (primary product class of estab.).....	99	3,404	15,445	2,587	4,976	9,407	29,518	36,320	65,627	924
	Establishments with:										
	90% or more specialization...	61	1,245	5,966	951	1,813	3,493	10,387	14,732	25,311	487
	75-89% specialization.....	12	693	2,682	582	1,021	2,073	5,027	7,314	12,000	( <sup>1</sup> )
3443	BOILER SHOP PRODUCTS (entire industry).....	1,252	90,551	497,146	64,658	127,164	323,238	754,972	878,425	1,670,007	45,043
	Establishments with:										
	90% or more specialization.....	946	55,334	308,077	39,356	79,251	201,060	487,285	595,010	1,106,345	33,496
	75-89% specialization.....	104	17,029	90,213	12,161	23,088	59,381	135,977	131,900	273,681	5,822

See footnotes at end of table.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34431	BOILER SHOP PRODUCTS, etc.—Continued										
	Heat exchangers and steam condensers (primary product class of estab.).....	43	8,416	49,581	5,286	10,567	29,532	67,767	83,423	158,684	4,165
	Establishments with:										
	90% or more specialization...	24	3,492	20,976	2,095	4,281	12,191	30,817	33,712	65,599	2,715
	75-89% specialization.....	4	582	3,019	357	709	1,728	4,521	4,414	9,023	( <sup>1</sup> )
34432	Fabricated steel plate (primary product class of estab.).....	349	15,574	86,827	11,734	21,156	58,397	123,717	138,413	272,273	7,906
	Establishments with:										
	90% or more specialization...	203	2,295	12,479	1,781	3,280	8,747	19,057	20,875	40,132	2,160
34433	Steel power boilers, parts and attachments (over 15 p.s.i. steam working pressure (primary product class of estab.).....	46	24,868	129,707	17,629	34,587	86,053	216,754	237,235	468,963	12,702
	Establishments with:										
	90% or more specialization...	30	10,461	55,587	7,911	16,164	39,911	102,531	113,152	221,838	3,718
34434	Gas cylinders and other boiler shop products (primary product class of estab.).....	103	7,463	41,802	5,467	10,790	27,527	57,353	53,674	111,079	3,899
	Establishments with:										
	90% or more specialization...	43	2,222	13,441	1,709	3,401	9,244	18,189	15,767	34,662	954
	75-89% specialization.....	12	1,651	8,493	1,096	2,122	5,105	11,273	11,243	22,189	1,758
34435	Metal tanks, complete at factory (standard line, pressure and non-pressure and metal septic tanks) (primary product class of estab.).....	400	13,816	68,532	9,800	19,675	44,046	106,463	153,540	261,274	4,914
	Establishments with:										
	90% or more specialization...	258	5,014	23,292	3,681	7,208	15,579	42,305	60,233	102,903	1,838
	75-89% specialization.....	42	3,171	16,073	2,216	4,492	10,519	26,245	34,503	60,883	1,482
34436	Metal tanks and vessels, custom fabricated at the factory (primary product class of estab.).....	128	16,531	97,616	11,933	24,270	63,340	152,922	177,031	332,098	7,965
	Establishments with:										
	90% or more specialization...	44	4,173	24,243	3,258	6,711	18,088	37,625	52,177	90,024	2,042
	75-89% specialization.....	21	3,491	23,265	2,656	5,411	15,907	29,420	42,674	74,002	3,118
3444	SHEET METAL WORK (entire industry)....	3,159	58,800	309,060	44,587	86,550	211,613	516,136	569,540	1,077,811	22,339
	Establishments with:										
	90% or more specialization.....	2,779	40,549	213,973	31,808	61,005	152,768	358,447	364,087	716,396	15,654
	75-89% specialization.....	129	4,625	26,277	2,939	6,138	15,273	45,194	57,460	101,938	1,672
34441	Sheet metal roofing and siding and roof drainage equipment (primary product class of estab.).....	88	5,834	32,841	3,804	7,430	19,387	61,040	103,876	163,700	2,420
	Establishments with:										
	90% or more specialization...	50	1,383	6,921	1,019	1,891	4,587	17,885	36,101	53,129	882
	75-89% specialization.....	10	1,412	9,314	794	1,640	5,276	16,685	16,309	32,851	517
34442	Culverts, flumes, irrigation pipes, etc. (primary product class of estab.).....	109	4,636	27,025	2,805	5,688	13,823	61,651	112,571	173,594	3,662
	Establishments with:										
	90% or more specialization...	91	2,514	15,099	1,462	3,010	6,760	35,343	68,329	103,284	1,442
34443	Other sheet metal work (primary product class of estab.).....	994	33,593	183,654	25,855	51,664	126,549	281,964	245,239	524,110	7,883
	Establishments with:										
	90% or more specialization...	775	21,487	121,389	16,902	33,786	86,363	183,281	145,260	328,145	5,097
	75-89% specialization.....	87	2,721	14,729	2,068	4,274	10,060	26,205	23,711	49,612	656
3449	MISCELLANEOUS METAL WORK, NEC (entire industry).....	1,591	42,122	224,804	30,856	61,990	142,607	401,076	516,554	917,151	15,903
	Establishments with:										
	90% or more specialization.....	1,282	23,267	122,006	17,258	34,143	77,717	235,918	316,424	552,942	10,107
	75-89% specialization.....	132	6,872	36,297	4,857	9,994	22,078	64,173	72,104	137,574	2,094
34491	Ornamental and structural metal work (primary product class of estab.).....	1,343	20,964	111,006	16,039	31,605	74,234	180,942	145,141	322,440	6,537
	Establishments with:										
	90% or more specialization...	1,115	11,947	60,098	9,268	17,839	40,502	104,783	84,246	188,836	4,296
	75-89% specialization.....	98	3,028	16,049	2,210	4,455	10,210	26,356	21,222	47,530	844
34492	Prefabricated and portable metal buildings and parts (primary product class of estab.).....	79	8,479	44,967	6,211	12,816	28,751	79,566	107,639	193,993	2,991
	Establishments with:										
	90% or more specialization...	43	3,400	17,758	2,672	5,666	12,738	34,715	53,514	91,571	1,778
	75-89% specialization.....	11	1,659	8,693	1,198	2,440	5,276	17,992	17,941	37,229	( <sup>1</sup> )
34493	Miscellaneous metal building materials (primary product class of estab.).....	169	12,679	68,831	8,606	17,569	39,622	140,568	263,774	400,718	6,375
	Establishments with:										
	90% or more specialization...	111	6,969	38,765	4,540	9,098	20,682	84,755	158,132	240,373	3,423
	75-89% specialization.....	15	1,384	7,317	933	1,974	4,237	12,815	21,279	33,530	556

<sup>1</sup>Less than \$500 thousand.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3441—FABRICATED STRUCTURAL STEEL								
Ferrous foundry.....	21	2	10	9	398	(D)	(D)	284
Nonferrous foundry (except die casting).....	6	2	2	2	63	(D)	(D)	(D)
Nonferrous die casting.....	1	1	...	...	(D)	(D)	...	...
Forging.....	26	18	6	2	153	34	(D)	(D)
Electroplating.....	3	1	2	...	17	(D)	(D)	...
Galvanizing and other hot dip coating.....	10	1	6	3	205	(D)	(D)	145
Heat treating and annealing.....	27	23	4	...	72	45	27	...
Machine shop.....	174	87	63	24	2,044	179	640	1,225
Tool and die shop.....	32	23	7	2	218	43	(D)	(D)
Foundry pattern shop.....	29	24	4	1	115	43	(D)	(D)
Plate or structural fabrication.....	685	48	259	378	40,663	149	2,868	37,646
Stamping, blanking, and forming.....	122	58	43	21	1,571	144	391	1,036
Painting, lacquering, and enameling.....	365	278	69	18	1,748	542	553	653
INDUSTRY 3442—METAL DOORS, SASH, AND TRIM								
Nonferrous foundry (except die casting).....	r7	2	4	r1	r81	(D)	42	(D)
Nonferrous die casting.....	5	3	1	1	44	(D)	(D)	(D)
Forging.....	13	4	3	6	372	8	31	333
Electroplating.....	10	9	1	...	28	(D)	(D)	...
Galvanizing and other hot dip coating.....	9	3	5	1	74	5	(D)	(D)
Heat treating and annealing.....	18	13	2	3	149	(D)	(D)	98
Machine shop.....	97	48	34	15	1,742	102	361	1,279
Tool and die shop.....	73	43	23	7	6,496	99	182	6,215
Foundry pattern shop.....	4	4	...	...	10	10	...	...
Plate or structural fabrication.....	64	16	25	23	2,562	48	246	2,268
Stamping, blanking, and forming.....	179	44	75	60	4,970	107	672	4,191
Painting, lacquering, and enameling.....	128	94	27	7	4,587	197	221	4,169
INDUSTRY 3443—BOILER SHOP PRODUCTS								
Ferrous foundry.....	6	1	...	5	1,022	(D)	...	(D)
Nonferrous foundry (except die casting).....	1	...	...	1	(D)	...	...	(D)
Forging.....	24	14	5	5	598	37	54	507
Galvanizing and other hot dip coating.....	8	3	4	1	77	5	(D)	(D)
Heat treating and annealing.....	67	53	12	2	287	108	(D)	(D)
Machine shop.....	223	98	77	48	3,895	203	741	2,951
Tool and die shop.....	31	18	7	6	344	44	69	231
Foundry pattern shop.....	18	7	7	4	1,488	14	73	1,401
Plate or structural fabrication.....	402	21	139	242	25,504	58	1,625	23,821
Stamping, blanking, and forming.....	146	70	53	23	3,043	170	457	2,416
Painting, lacquering, and enameling.....	209	174	30	5	791	322	274	195
INDUSTRY 3444—SHEET METAL WORK								
Nonferrous die casting.....	4	4	...	...	12	12	...	...
Forging.....	10	7	3	...	46	10	36	...
Electroplating.....	7	5	2	...	18	(D)	(D)	...
Galvanizing and other hot dip coating.....	28	15	10	3	192	34	69	89
Heat treating and annealing.....	12	9	3	...	30	15	15	...
Automatic screw machine department.....	5	4	1	...	17	(D)	(D)	...
Machine shop.....	138	83	44	11	957	168	367	422
Tool and die shop.....	77	62	14	1	249	114	(D)	(D)
Foundry pattern shop.....	13	13	...	...	23	23	...	...
Plate or structural fabrication.....	217	70	100	47	4,609	187	961	3,461
Stamping, blanking, and forming.....	379	104	179	96	6,515	258	1,699	4,558
Painting, lacquering, and enameling.....	260	207	48	5	899	371	394	134

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3449—MISCELLANEOUS METAL WORK, NEC							
Ferrous foundry.....	7	1	2	4	282	(D)	(D)	(D)
Nonferrous foundry (except die casting).....	10	6	4	...	43	12	31	...
Forging.....	21	16	4	1	110	25	(D)	(D)
Electroplating.....	7	5	1	1	42	(D)	(D)	(D)
Galvanizing and other hot dip coating.....	2	...	2	...	(D)	...	(D)	...
Heat treating and annealing.....	28	22	6	...	96	44	52	...
Machine shop.....	111	59	35	17	1,253	125	293	835
Tool and die shop.....	38	21	13	4	269	40	124	105
Foundry pattern shop.....	10	7	2	1	73	13	(D)	(D)
Plate or structural fabrication.....	249	54	109	86	7,389	147	1,091	6,151
Stamping, blanking, and forming.....	140	58	42	40	3,707	120	401	3,186
Painting, lacquering, and enameling.....	243	186	50	7	1,126	347	400	379

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry				
	3441	3442	3443	3444	3449
Total number of establishments in the industry.....	1,861	1,546	1,252	3,159	1,591
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	1,445	1,129	1,094	2,231	1,205
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	80-85	75-80	85-90	75-80	75-80

D Withheld to avoid disclosing figures for individual companies.

r Revised.



## Screw Machine Products, Bolts, Metal Stampings, and Metal Services

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

### S.I.C. Code and Title (1957 Edition)

- 3451--Screw Machine Products
- 3452--Bolts, Nuts, Screws, Rivets, and Washers
- 3461--Metal Stampings
- 3471--Electroplating, Plating, Polishing, Anodizing, and Coloring
- 3479--Coating, Engraving, and Allied Services, Not Elsewhere Classified

### 3451--Screw Machine Products

This industry comprises establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other material. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, or other industrial fasteners, on headers, threaders, and nut forming machines are classified in Industry 3452, Bolts, Nuts, Washers and Rivets. For a detailed list of products of Industry 3451, refer to table 6A, product codes 3451012 to 3451098.

While the identifying code number for this industry has been changed from the code number used in the previous classification system, the content of the industry both under the previous and 1957 edition of the Standard Industrial Classification Manual is unchanged.

Value of shipments and other receipts of the Screw Machine Products Industry in 1958 totaled \$425 million. This included shipments of screw machine products (primary products) valued at \$373 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly contract work on materials owned by others and sales of scrap) of \$29 million.

This industry's shipments of screw machine products (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93

percent. Secondary products shipped by this industry in 1958 included bolts, nuts, washers, and other standard industrial fasteners, \$7 million.

Industry 3451 shipments of screw machine products (primary products) in 1958 represented 87 percent (coverage ratio) of these products valued at \$429 million shipped by all industries. In 1954, the coverage ratio was 82 percent. Other industries shipping screw machine products (primary products) included Industry 3452, Bolts, Nuts, Washers, and Rivets, \$17 million.

Industry 3451 includes establishments producing a wide variety of items such as small machinery parts, etc., on hand operated and automatic screw machines from rod, bar and tube stock and from castings and forgings. These products are produced almost entirely on a job or order basis. Included are screw machine departments or plants of companies primarily engaged in producing finished end products where such activities could be reported separately. However, in many instances captive screw machine operations were so integrated with other activities that separate reports were not obtained and the entire establishment was classified on the basis of its primary products.

As shown in table 7, the principal materials consumed by the screw machine products industry are carbon steel bar stock and copper and copper-base alloy mill shapes and forms. These materials, together with the other specific materials listed in table 7 accounted for 62 percent of the total cost of materials consumed by this industry.

### 3452--Bolts, Nuts, Washers, and Rivets

This industry comprises establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in Major Group 33, and establishments primarily engaged in manufacturing screw machine products in Industry 3451. For a detailed list of products of Industry 3452, refer to table 6A, product codes 3452111 to 3452252.

While the identifying code number for this industry has been changed from the code number used in the previous classification system, the content of the industry both under the previous



and 1957 edition of the Standard Industrial Classification Manual is unchanged.

Value of shipments and other receipts of the Bolts, Nuts, Washers, and Rivets Industry in 1958 totaled \$880 million. This included shipments of bolts, nuts, washers, and rivets (primary products) valued at \$755 million, shipments of other products (secondary products) valued at \$72 million, and miscellaneous receipts (mainly resales) of \$53 million.

This industry's shipments of bolts, nuts, washers, and rivets (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent. Secondary products shipped by this industry in 1958 included screw machine products, \$17 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 80 percent of the total industry shipments are represented by plants specializing in bolts, nuts, and other standard industrial fasteners.

Industry 3452 shipments of bolts, nuts, washers, and rivets (primary products) in 1958 represented 87 percent (coverage ratio) of these products valued at \$859 million shipped by all industries. In 1954, the coverage ratio was 89 percent. Other industries shipping bolts, nuts, washers, and rivets (primary products) consisted mainly of Industry 3312, Blast Furnaces, Steel Works, and Rolling Mills, \$57 million.

Plants included in Industry 3452 in general are engaged in the manufacture of bolts, nuts, screws, and rivets of standard types and sizes on heading, threading, and nut forming machines. These establishments may be also engaged in the production of special industrial fasteners which require special or added operations or the use of special tools and fixtures. These items include bolts, nuts, screws, etc., of non-standard types and sizes and special fasteners made by stamping and other forming processes. To a lesser extent these plants manufacture standard type bolts, nuts, screws, etc., on automatic and hand operated screw machines.

The selected materials listed in table 7 accounted for 70 percent of the total cost of materials consumed by Industry 3452 establishments. Carbon steel bars and wire, the two principal materials consumed, represented 43 percent of the cost of materials used by the bolt, nut, washer, and rivet industry.

Variations of operations performed by establishments classified in Industry 3452 are indicated by data given in table 9. These statistics

show the number of establishments performing each of 13 selected metalworking operations and the approximate size of each operation in terms of employment.

### 3461—Metal Stampings

This industry comprises establishments primarily engaged in manufacturing metal stampings by the use of tools, dies, jigs, and fixtures to punch, draw, form, or otherwise modify materials under pressure in a machine (primarily punch and draw presses). For a detailed list of products of Industry 3461, refer to table 6A, product codes 34611111 to 3461898.

Both the code number and content for this industry were changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Establishments producing vitreous enameled products were previously classified in a separate industry (old SIC 3461), whereas establishments producing other types of metal stampings were included in old SIC Industry 3463. Both types of establishments are now included in new SIC 3461.

Establishments in Industry 3461 produce both job stampings and finished end products. Job stampings are made from materials owned by the stamping establishments as well as from materials owned by the customer and processed by the stamping establishments on a contract or commission basis. These stampings are mainly parts which are sold to manufacturers for incorporation into any of a wide variety of products such as refrigerators, agricultural machinery, radio and television sets. Finished end products manufactured by establishments in this industry include cooking, kitchen, and hospital utensils (including domestic pressure cookers and porcelain enameled utensils), pails, ash cans, garbage cans, perforated metal products, metal commercial and home canning closures as well as a large variety of miscellaneous items. Table 8 presents selected statistics for establishments classified according to their degree of specialization in the primary products of this industry.

Value of shipments and other receipts of the Metal Stampings Industry in 1958 totaled \$2,102 million. This included shipments of metal stampings (primary products) valued at \$1,695 million, shipments of other products (secondary products) valued at \$281 million, and miscellaneous receipts (mainly resales and sales of scrap) of \$126 million.

This industry's shipments of metal stampings (primary products) in 1958 represented 86 percent (specialization ratio) of its total product



shipments (primary and secondary). Secondary products shipped by this industry in 1958 included special dies and tools, die sets, jigs, and fixtures, \$58 million; and molded and fabricated plastic products, nec, \$16 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 32 percent of the total industry shipments are represented by plants specializing in job stampings, except automotive, and 25 percent in job stampings, automotive.

Industry 3461 shipments of metal stampings (primary products) in 1958 represented 87 percent (coverage ratio) of these products valued at \$1,948 million shipped by all industries. Other industries shipping metal stampings (primary products) consisted mainly of Industry 3717, Motor Vehicles and Parts, \$79 million, and Industry 3491, Metal Barrels, Drums, and Pails, \$8 million. This coverage ratio measures only the coverage of this industry in terms of the total measurable output of metal stampings. This output is limited to the value of stampings (including the specific stamped products which are classified as primary products of this Industry) which were produced for sale or for interplant transfer by establishments classified in Industry 3461 and by establishments in other industries where these products were produced as secondary products. However, no data are available on the value of stampings produced and used as component parts by establishments classified in other industries. Such a value if it could be measured might approximate or even exceed the total value of all stampings produced commercially or for interplant transfer. While no such value figure is available, table 9 for each of the industries within Major Groups 34, 35, 36 and 37, does show the importance of specific metalworking operations including "stamping, blanking, forming and drawing." These data are based on the number of employees engaged in the operations listed.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of Industry 3461, e.g., stamped and spun hospital utensils and cooking and kitchen household utensils, aluminum, 99 percent; metal commercial closures, except crowns, 100 percent; and crowns, 100 percent.

Industry 3461 includes the stamping departments of establishments primarily engaged in producing fabricated metal products where such stamping activities could be reported separately. However, where captive stamping operations were closely integrated with other activities,

such as in the production of household appliances, farm equipment, motor vehicles, etc., separate reports were not obtained.

Plants in the Metal Stampings Industry commonly perform a number of auxiliary metalworking operations. As shown in table 9, a considerable number of establishments in this industry maintain tool and die departments and machine shops for the production of stamping and forming dies used in their metal fabricating operations.

The Bureau of the Census collects monthly data on commercial and home canning closures of metal which are primary products of Industry 3461. These statistics are published in the Current Industrial Reports Series M34H, Closures for Glass Containers and Crowns. The Census figures shown in table 6A differ slightly from the sum of the 1958 monthly data for metal closures because a few establishments not included in the monthly survey reported the manufacture of metal closures in the Census. In other instances manufacturers covered by the monthly survey submitted revised annual data on their 1958 Census reports. The monthly survey M34H also covers closures other than metal. Since these products, such as plastic caps and paper closures, are not primary products of Industry 3461 they have been classified in other appropriate industries for the Census.

#### 3471—Electroplating, Plating, Polishing, Anodizing, and Coloring

This industry comprises establishments primarily engaged in all types of electroplating, plating, anodizing, and coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others.

While the identifying code number for this industry has been changed from the code number used in the previous classification system, the content of the industry both under the previous and 1957 edition of the Standard Industrial Classification Manual is unchanged.

Value of shipments and other receipts of the Plating and Polishing Industry in 1958 totaled \$359 million. This consisted almost entirely of receipts for plating and polishing materials owned by others.

#### 3479—Coating, Engraving, and Allied Services, N.E.C.

This industry comprises establishments primarily engaged in performing the following types of services on metals: (1) enameling, lacquering, and varnishing metal products for the trade; (2) hot dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; in hot dip coating such items with aluminum, lead, or zinc; in retinning cans



and utensils; (3) in engraving, chasing and etching jewelry, silverware, notarial and other seals, and other metal products for the trade and for job contracting for purposes other than printing; (4) and other metal services, not elsewhere classified. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing of metals and formed products for the trade are classified in Industry 3471; and those producing porcelain enameled products in Industry 3461.

Both the code number and content for this industry were changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A. In the previous classification system the establishments now included in this industry were classified in three separate industries as follows: enameling and lacquering, 3465; galvanizing, 3466; and engraving on metal, 3467.

Industry 3479 includes establishments engaged primarily in enameling materials owned by others. Establishments primarily engaged in manufacturing vitreous-enameled products from their own materials are included in Industry 3461. In addition, Industry 3479 covers both vitreous and other types of enameling (such as baked enameling) whereas Industry 3461 includes only vitreous-enameling establishments as well as those producing other types of metal stampings.

Industry 3479 includes establishments primarily engaged in galvanizing iron and steel sheets or formed products; in coating iron sheets or formed products with aluminum, lead, or zinc; and in retinning cans and utensils. Most of the work done in this industry is done on materials owned by others. Rolling mills engaged in galvanizing, tinning, and other coating are classified in Industry 3312, Blast Furnaces and Steel Works, and establishments primarily engaged in manufacturing galvanized steel wire, from purchased metal rods or bars, are classified in Industry 3315, Steel Wire Drawing.

Industry 3479 includes establishments primarily engaged in engraving, chasing, and etching jewelry, silverware, notarial seals, and other metal products for the trade, for purposes other than printing. Establishments primarily engaged in preparing metal lithographic plates and in printing from such media are classified in Industry 2752, Lithographing; establishments primarily engaged in engraving and etching steel and copper plates and in using these plates to print stationary, visiting cards, etc., are included in Industry 2753, Engraving and Plate Printing; and establishments primarily engaged in preparing photoengraved plates (halftones and line-cuts) are classified in Industry 2793, Photoengraving.

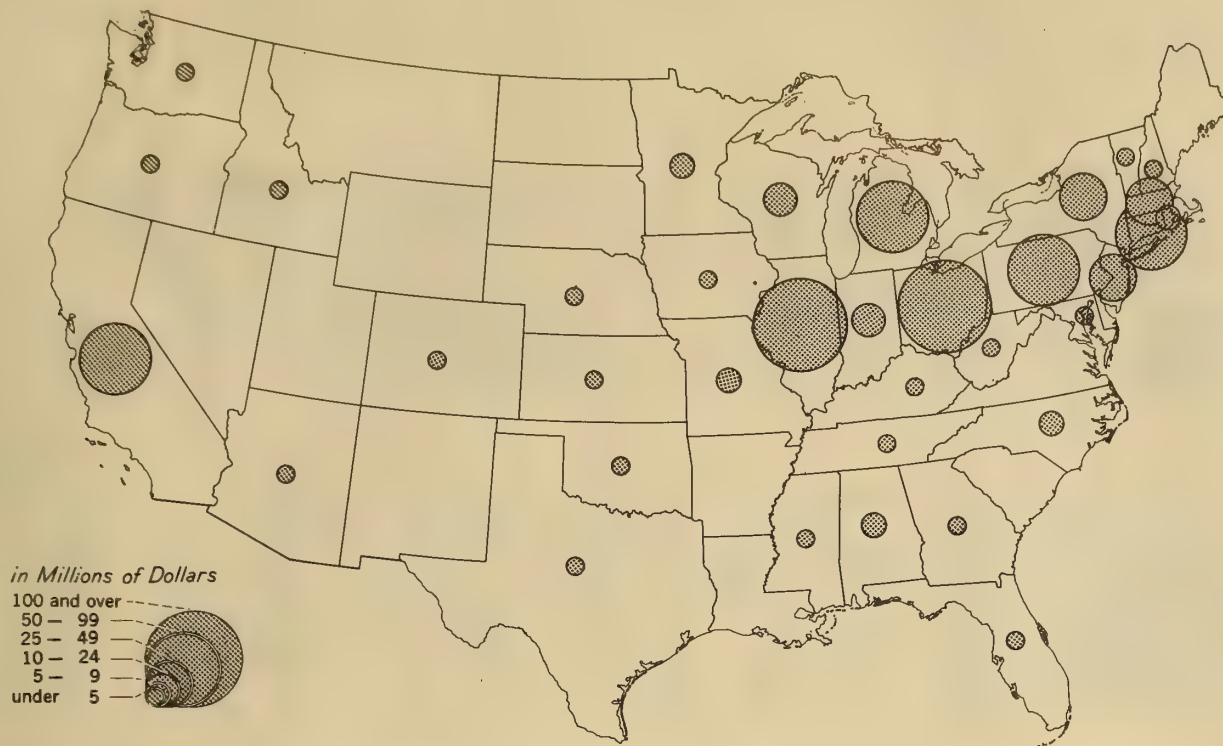
Value of shipments and other receipts of the Metal Coating, Engraving, Etc., Industry in 1958 totaled \$196 million. This consisted almost entirely of receipts for enameling and lacquering, galvanizing, and engraving of materials owned by others.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## SCREW MACHINE PRODUCTS, AND BOLTS, NUTS, SCREWS, RIVETS AND WASHERS: SIC 345

Value Added by Manufacture by State: 1958

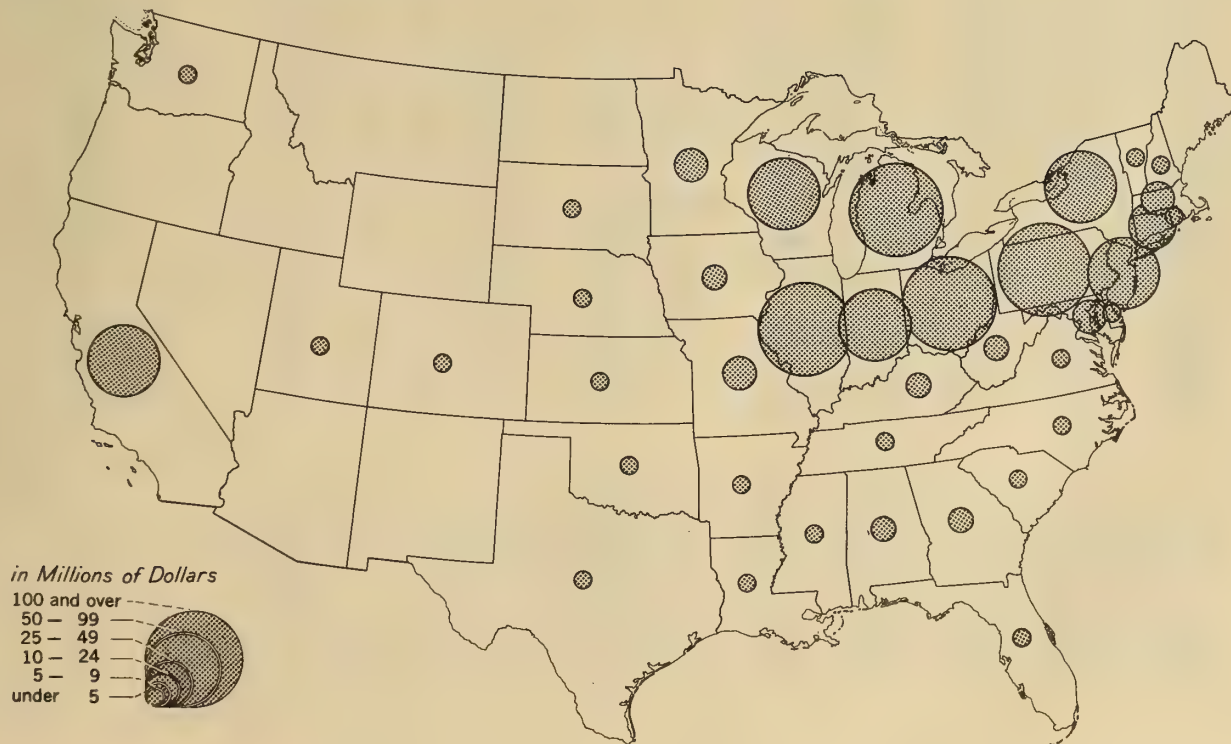


Includes Industries 3451 and 3452. See Table 2.

Bureau of the Census M-58-D345

## METAL STAMPINGS: SIC 346

Value Added by Manufacture by State: 1958

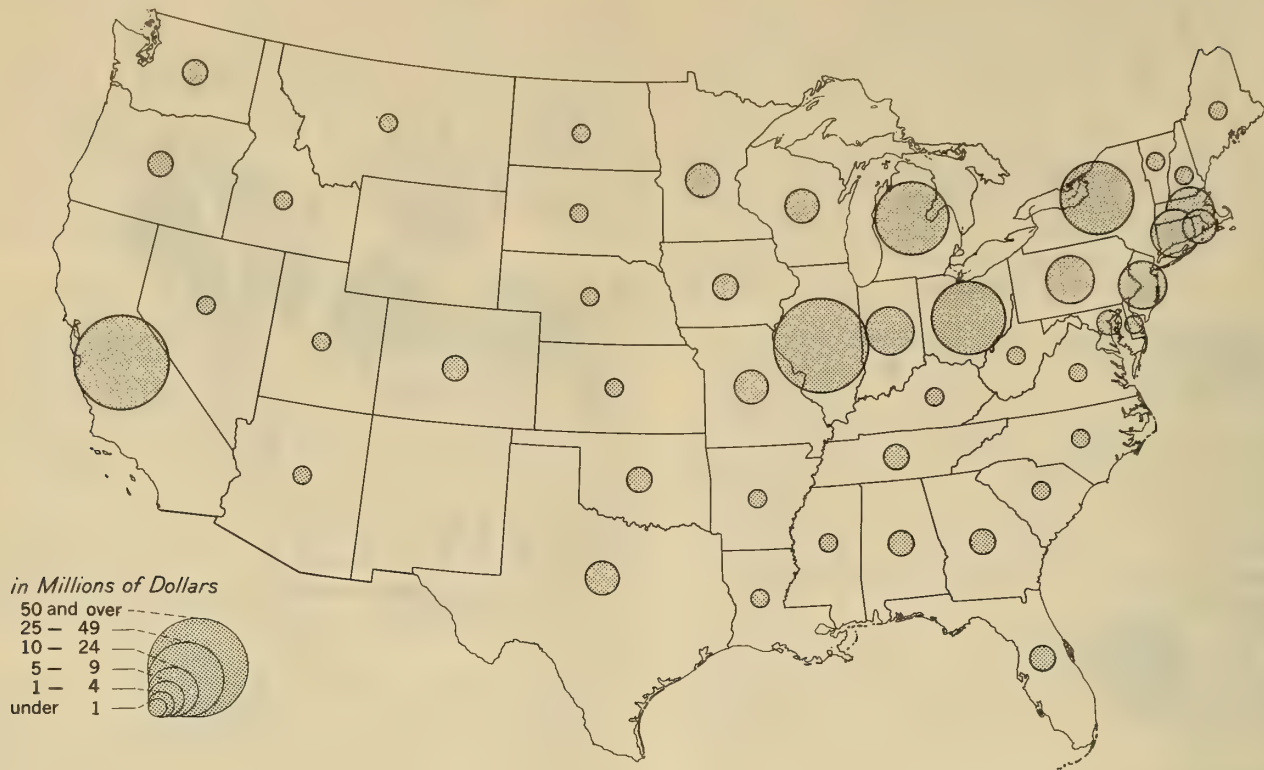


Includes only Industry 3461. See Table 2.

Bureau of the Census M-58-D346

## COATING, ENGRAVING, AND ALLIED SERVICES: SIC 347

Value Added by Manufacture by State: 1958



Includes Industries 3471 and 3479. See Table 2.

Bureau of the Census M-58-D347



Table 1.—General Statistics for the United States. 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per-cent)	Coverage ratio <sup>7</sup> (per-cent)	
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)							
3451 (old SIC 3495)	Screw machine products:															
1958.....		r1,785	r1,792	r419	r31,836	r154,925	r25,892	r51,915	r113,989	r249,975	r175,111	r425,113	r11,222	94	87	
1957 <sup>8</sup> .....		(NA)	(NA)	(NA)	38,722	182,223	32,390	66,675	135,061	296,665	194,840	490,070	12,608	(NA)	(NA)	
1956 <sup>8</sup> .....		(NA)	(NA)	(NA)	38,864	178,084	32,683	67,481	133,654	292,034	204,467	491,574	17,061	(NA)	(NA)	
1955 <sup>8</sup> .....		(NA)	(NA)	(NA)	36,227	162,123	30,627	64,864	122,124	267,359	192,910	454,089	14,521	(NA)	(NA)	
1954.....		1,791	1,795	411	35,009	151,444	29,694	61,030	112,641	243,565	158,592	406,457	11,886	93	82	
1953 <sup>8</sup> .....		(NA)	(NA)	(NA)	46,289	206,105	40,321	88,682	164,255	350,721	223,068	573,789	(NA)	(NA)	(NA)	
1952 <sup>8</sup> .....		(NA)	(NA)	(NA)	44,264	184,490	39,006	86,121	148,721	322,539	219,693	542,232	(NA)	(NA)	(NA)	
1951 <sup>8</sup> .....		(NA)	(NA)	(NA)	41,071	162,326	36,268	79,406	131,064	292,056	205,106	497,162	(NA)	(NA)	(NA)	
1950 <sup>8</sup> .....		(NA)	(NA)	(NA)	30,096	103,496	25,469	53,776	82,128	184,373	127,350	311,723	(NA)	(NA)	(NA)	
1949 <sup>8</sup> .....		(NA)	(NA)	(NA)	22,761	77,926	18,614	36,099	57,461	120,400	74,417	194,817	(NA)	(NA)	(NA)	
1947.....		1,205	1,209	(NA)	28,623	87,292	24,859	52,461	69,235	144,791	77,224	222,015	10,800	94	86	
1939 <sup>9</sup> .....		(NA)	288	(NA)	(NA)	(NA)	10,571	(NA)	14,287	31,654	20,910	52,564	(NA)	(NA)	(NA)	
3452 (old SIC 3494)	Bolts, nuts, washers, and rivets:															
1958.....		468	525	283	53,270	286,039	40,202	80,579	191,886	504,731	370,608	880,328	43,707	91	87	
1957 <sup>8</sup> .....		(NA)	(NA)	(NA)	59,457	318,535	46,640	95,146	222,077	584,979	r398,388	965,126	51,443	(NA)	(NA)	
1956 <sup>8</sup> .....		(NA)	(NA)	(NA)	58,745	304,470	46,116	96,483	215,870	554,333	387,681	921,496	36,234	(NA)	(NA)	
1955 <sup>8</sup> .....		(NA)	(NA)	(NA)	59,760	298,732	47,853	104,238	217,577	568,138	399,048	945,375	37,021	(NA)	(NA)	
1954.....		421	457	256	53,729	246,235	42,309	86,427	173,019	421,512	318,783	738,482	26,090	91	89	
1953 <sup>8</sup> .....		(NA)	(NA)	(NA)	57,543	264,384	46,635	100,732	195,256	483,374	330,895	814,269	(NA)	(NA)	(NA)	
1952 <sup>8</sup> .....		(NA)	(NA)	(NA)	52,652	236,112	42,549	91,815	173,203	447,821	284,548	732,369	(NA)	(NA)	(NA)	
1951 <sup>8</sup> .....		(NA)	(NA)	(NA)	53,468	232,517	43,986	100,182	175,577	494,935	312,096	807,031	(NA)	(NA)	(NA)	
1950 <sup>8</sup> .....		(NA)	(NA)	(NA)	46,317	176,504	37,800	82,841	131,314	357,453	213,769	571,222	(NA)	(NA)	(NA)	
1949 <sup>8</sup> .....		(NA)	(NA)	(NA)	42,532	142,063	33,970	68,279	101,820	249,728	157,409	407,137	(NA)	(NA)	(NA)	
1947.....		339	364	217	49,235	151,514	40,908	85,895	115,790	285,451	178,301	463,752	18,263	92	86	
1939 <sup>9</sup> .....		(NA)	219	(NA)	(NA)	(NA)	20,722	(NA)	26,216	63,999	50,634	114,633	(NA)	(NA)	(NA)	
3451 and 3452	Total for bolts, nuts, washers and rivets and screw machine products: <sup>9</sup>															
1958.....		(NA)	r2,317	r702	r85,106	r440,964	r66,094	r132,494	r305,875	r754,706	r545,719	r1,305,441	r54,929	(NA)	(NA)	
1957.....		(NA)	(NA)	(NA)	98,179	500,758	79,030	161,821	357,138	881,664	593,228	1,455,196	64,051	(NA)	(NA)	
1956.....		(NA)	(NA)	(NA)	97,609	482,554	78,799	163,964	349,524	846,367	592,146	1,413,070	53,295	(NA)	(NA)	
1955.....		(NA)	(NA)	(NA)	95,987	460,855	78,480	169,102	339,701	835,497	591,958	1,399,464	51,542	(NA)	(NA)	
1954.....		(NA)	2,252	667	88,738	397,679	72,003	147,457	285,660	665,077	477,375	1,144,939	37,976	(NA)	(NA)	
1953.....		(NA)	(NA)	(NA)	103,832	470,489	86,956	189,414	359,511	834,095	553,963	1,388,058	(NA)	(NA)	(NA)	
1952.....		(NA)	(NA)	(NA)	96,916	420,602	81,555	177,736	321,924	770,360	504,241	1,274,601	(NA)	(NA)	(NA)	
1951.....		(NA)	(NA)	(NA)	94,539	394,843	80,254	179,588	306,641	786,991	517,202	1,304,193	(NA)	(NA)	(NA)	
1950.....		(NA)	(NA)	(NA)	76,413	280,000	63,269	136,617	213,442	541,826	341,119	882,943	(NA)	(NA)	(NA)	
1949.....		(NA)	(NA)	(NA)	65,293	219,989	52,584	104,378	159,281	370,128	231,826	601,954	(NA)	(NA)	(NA)	
1947.....		(NA)	1,573	(NA)	77,858	238,806	65,767	138,356	185,025	430,242	255,525	685,767	(NA)	(NA)	(NA)	
1939.....		(NA)	507	(NA)	(NA)	(NA)	31,293	(NA)	40,503	95,653	71,544	167,197	(NA)	(NA)	(NA)	
1937.....		(NA)	449	(NA)	43,125	63,685	38,127	(NA)	50,118	113,748	87,056	200,804	(NA)	(NA)	(NA)	
1935.....		(NA)	439	(NA)	31,854	40,274	27,524	(NA)	30,200	63,921	56,528	120,449	(NA)	(NA)	(NA)	
1933.....		(NA)	358	(NA)	21,624	21,266	18,722	(NA)	16,106	37,488	28,835	66,323	(NA)	(NA)	(NA)	
1931.....		(NA)	391	(NA)	(NA)	(NA)	22,565	(NA)	23,655	50,167	33,014	83,181	(NA)	(NA)	(NA)	
1929.....		(NA)	390	(NA)	40,557	66,117	36,056	(NA)	51,103	124,692	83,675	208,367	(NA)	(NA)	(NA)	
1927.....		(NA)	333	(NA)	31,038	45,840	27,304	(NA)	35,379	71,684	64,212	135,896	(NA)	(NA)	(NA)	
1925.....		(NA)	332	(NA)	31,704	46,101	27,978	(NA)	36,136	71,958	63,583	135,541	(NA)	(NA)	(NA)	
1923.....		(NA)	316	(NA)	32,829	46,332	29,196	(NA)	37,150	73,938	63,439	137,377	(NA)	(NA)	(NA)	
1921.....		(NA)	293	(NA)	21,677	27,430	18,801	(NA)	19,614	32,970	28,587	61,557	(NA)	(NA)	(NA)	
1919.....		(NA)	298	(NA)	36,956	47,137	33,118	(NA)	37,943	80,407	64,812	145,219	(NA)	(NA)	(NA)	
1914.....		(NA)	180	(NA)	20,671	13,085	18,747	(NA)	10,221	18,546	18,321	36,867	(NA)	(NA)	(NA)	
1909.....		(NA)	162	(NA)	17,945	10,164	16,476	(NA)	8,217	17,425	16,273	33,698	(NA)	(NA)	(NA)	
1904.....		(NA)	121	(NA)	12,543	6,490	11,543	(NA)	5,140	10,043	9,489	19,532	(NA)	(NA)	(NA)	
1899.....		(NA)	105	(NA)	11,854	5,282	11,187	(NA)	4,416	8,845	9,791	18,636	(NA)	(NA)	(NA)	
3461 (old SIC 3461 and 3463)		Metal stampings: <sup>10</sup>														
1958.....			2,372	2,456	1,041	125,567	645,683	99,974	200,401	458,566	1,049,311	1,041,623	2,101,736	50,439	86	87
1954.....			(NA)	2,320	930	135,472	594,833	112,338	225,687	440,746	958,067	868,005	1,841,508	39,290	(NA)	(NA)
1953 <sup>8</sup> .....			(NA)	(NA)	(NA)	176,732	765,310	150,112	304,690	593,182	1,253,327	1,248,509	2,501,836	(NA)	(NA)	(NA)
1952 <sup>8</sup> .....			(NA)	(NA)	(NA)	148,799	622,345	122,244	255,230	462,789	978,556	917,602	1,896,152	(NA)	(NA)	(NA)
1951 <sup>8</sup> .....			(NA)	(NA)	(NA)	159,300	603,762	133,158	272,528	454,910	989,891	1,000,456	1,990,347	(NA)	(NA)	(NA)
1950 <sup>8</sup> .....	(NA)		(NA)	(NA)	148,657	528,704	124,140	256,925	400,806	875,998	878,694	1,754,692	(NA)	(NA)	(NA)	
1949 <sup>8</sup> .....	(NA)		(NA)	(NA)	125,487	417,054	105,893	206,489	308,403	657,000	617,043	1,274,043	(NA)	(NA)	(NA)	
1947.....	(NA)	2,032	(NA)	144,961	418,609	125,725	153,130	329,141	691,229	554,963	1,246,192	(NA)	(NA)	(NA)		
1939 <sup>11</sup> .....	(NA)	1,020	(NA)	(NA)	(NA)	67,991	(NA)	81,420	192,100	178,430	370,530	(NA)	(NA)	(NA)		

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3471 (old SIC 3468)	Plating and polishing:														
	1958 <sup>1,2</sup>	2,614	2,646	542	36,471	156,274	30,543	59,082	117,703	253,784	106,108	359,116	15,877	(13)	(13)
	1954 <sup>1,2</sup>	2,423	2,451	465	36,066	136,933	31,221	62,878	105,443	214,330	92,867	307,398	12,862	(13)	(13)
	1953 <sup>8</sup>	(NA)	(NA)	(NA)	40,999	157,457	35,493	72,804	122,885	259,280	106,642	365,922	(NA)	(NA)	(NA)
	1952 <sup>8</sup>	(NA)	(NA)	(NA)	24,934	98,777	21,981	45,883	77,853	163,414	90,747	254,161	(NA)	(NA)	(NA)
	1951 <sup>8</sup>	(NA)	(NA)	(NA)	26,595	95,024	23,941	48,160	76,517	172,246	90,550	262,796	(NA)	(NA)	(NA)
	1950 <sup>8</sup>	(NA)	(NA)	(NA)	26,812	83,009	23,879	49,775	68,619	150,227	84,794	235,021	(NA)	(NA)	(NA)
	1947	1,789	1,804	(NA)	28,626	77,503	25,951	52,156	65,388	127,890	52,786	180,676	(NA)	(13)	(13)
	1939	(NA)	643	(NA)	9,653	12,548	8,206	(NA)	9,383	20,868	7,300	28,168	(NA)	(NA)	(NA)
	1937	(NA)	547	(NA)	9,330	12,300	8,256	(NA)	9,828	19,871	6,815	26,686	(NA)	(NA)	(NA)
	1935	(NA)	553	(NA)	7,206	8,974	6,238	(NA)	6,941	13,679	4,649	18,328	(NA)	(NA)	(NA)
	1933	(NA)	423	(NA)	4,435	4,295	3,956	(NA)	3,715	7,680	2,352	10,032	(NA)	(NA)	(NA)
	1931	(NA)	464	(NA)	(NA)	(NA)	4,107	(NA)	5,642	10,282	2,802	13,084	(NA)	(NA)	(NA)
	1929	(NA)	534	(NA)	6,843	12,094	5,928	(NA)	9,537	18,929	4,799	23,728	(NA)	(NA)	(NA)
	1927	(NA)	419	(NA)	4,126	6,995	3,556	(NA)	5,629	10,595	3,335	13,930	(NA)	(NA)	(NA)
	1925	(NA)	449	(NA)	3,843	6,340	3,337	(NA)	5,254	9,900	2,541	12,441	(NA)	(NA)	(NA)
	1923	(NA)	446	(NA)	4,017	6,350	3,374	(NA)	5,195	9,684	2,613	12,297	(NA)	(NA)	(NA)
	1921	(NA)	392	(NA)	2,844	4,325	2,460	(NA)	3,563	6,081	1,960	8,041	(NA)	(NA)	(NA)
	1919	(NA)	515	(NA)	3,442	4,537	3,024	(NA)	3,794	7,751	2,639	10,390	(NA)	(NA)	(NA)
	1914	(NA)	479	(NA)	2,918	2,094	2,584	(NA)	1,713	3,437	1,336	4,773	(NA)	(NA)	(NA)
	1909	(NA)	461	(NA)	3,004	1,895	2,717	(NA)	1,652	3,305	1,205	4,510	(NA)	(NA)	(NA)
	1904	(NA)	312	(NA)	2,087	1,225	1,943	(NA)	1,093	2,218	747	2,965	(NA)	(NA)	(NA)
	1899	(NA)	302	(NA)	2,201	1,042	2,086	(NA)	949	1,936	784	2,720	(NA)	(NA)	(NA)
3479 (old SIC 3465, 3466 and 3467)	Metal coating, engraving, etc. <sup>14</sup>														
	1958 <sup>1,2</sup>	986	1,003	192	15,680	68,046	12,892	25,206	49,985	108,379	88,846	196,389	4,676	(13)	(13)
	1954 <sup>1,2</sup>	(NA)	782	163	12,305	45,625	10,450	20,797	33,739	70,402	34,542	105,233	3,409	(13)	(13)
	1947	(NA)	604	(NA)	10,433	28,618	9,217	(NA)	23,135	47,443	23,366	70,809	(NA)	(13)	(13)
	1939	(NA)	257	(NA)	5,265	7,678	4,452	(NA)	5,271	12,349	6,647	18,996	(NA)	(NA)	(NA)
	1937 <sup>15</sup>	(NA)	215	(NA)	(NA)	(NA)	6,139	(NA)	7,434	15,967	9,048	25,015	(NA)	(NA)	(NA)

NA Not available. <sup>15</sup>Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry code	Value added (\$1,000)	Industry code	Value added (\$1,000)
3451	246,886	3471	214,070
3452	411,662	3479	70,445
3461	960,557		

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry code	Cost of materials, etc. (\$1,000)		Industry code	Cost of materials, etc. (\$1,000)	
	1958	1954		1958	1954
3451	169,804	154,562	3471	103,172	90,282
3452	337,965	287,863	3479	85,945	33,689
3461	998,147	832,509			

Footnotes continued on next page.



Footnotes for Table 1-34D

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry code	Value of shipments (\$1,000)		Industry code	Value of shipments (\$1,000)	
	1958	1954		1958	1954
3451	2418,387	401,449	3471	355,305	304,352
3452	838,909	699,523	3479	191,314	104,136
3461	2,044,494	1,793,067			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>The figures for 1939 are not entirely comparable with those for earlier years. However, the figures for the "Bolts, nuts, washers, and rivets" and the "Screw-machine products" industries have been combined so that figures can be shown for the period 1899-1958.

<sup>10</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: 3461, Vitreous-Enameled Products and 3463, Metal Stampings. The data for 1954 and earlier years for these two industries have been combined.

<sup>11</sup>No comparable figures are available prior to 1939.

<sup>12</sup>In this industry which contains a large number of very small establishments there is a possibility that some of these small establishments have been misclassified as to industry. This would not significantly affect the statistics other than the number of establishments.

<sup>13</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

<sup>14</sup>The 1957 Standard Industrial Classification combined in this industry three industries which were separate in the 1945 Standard Industrial Classification. These were: 3465, Enameling and Lacquering; 3466, Galvanizing; and 3467, Engraving on Metal. The data for 1954 and earlier years shown for these three industries have been combined.

<sup>15</sup>No comparable figures are available prior to 1937.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3461, Metal stampings.....	2,456	1,041	125,567	1,049,311	xxx	xxx	xxx	xxx
Old Industry 3461, Vitreous-enameled products.....	55	33	5,803	40,582	55	33	5,803	40,582
Old Industry 3463, Metal stampings.....	2,389	999	117,796	992,037				
Other industries <sup>1</sup> .....	12	9	1,968	16,692	xxx	xxx	xxx	xxx
New Industry 3479, Metal coating, engraving, etc.....	1,003	192	15,680	108,379	xxx	xxx	xxx	xxx
Old Industry 3465, Enameling and lacquering.....	467	97	7,104	47,723	467	97	7,104	47,723
Old Industry 3466, Galvanizing.....	199	54	4,376	32,890	199	54	4,376	32,890
Old Industry 3467, Engraving on metal.....	337	41	4,200	27,766	337	41	4,200	27,726

<sup>1</sup>Revised.

<sup>2</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their classification to conform to the new SIC and classification errors for small establishments that were not corrected since they were not statistically significant.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3451	Screw machine products, total....	r1,792	r419	r31,836	r154,925	r25,892	r51,915	r113,989	r249,975	r425,113	r11,222	35,009	246,886	28,623
	New England.....	r274	r63	r5,517	r24,969	r4,553	r9,133	r18,344	r39,088	r62,717	r2,194	5,767	37,024	4,363
	Massachusetts....	80	25	1,824	8,310	1,530	3,123	6,097	12,457	20,153	730	1,869	11,237	1,888
	Connecticut.....	r154	r30	r3,147	r14,430	r2,571	r5,120	r10,633	r23,087	r37,148	r1,274	3,160	21,308	2,146
	Middle Atlantic...	351	89	5,592	24,659	4,665	9,109	18,823	40,683	67,054	1,739	5,701	37,034	4,372
	New York.....	160	46	2,776	12,564	2,346	4,631	9,749	20,334	35,418	827	2,745	17,711	2,152
	New Jersey.....	111	22	1,564	7,141	1,263	2,499	5,162	12,337	17,871	599	1,346	10,292	1,007
	Pennsylvania....	80	21	1,252	4,954	1,056	1,979	3,912	8,012	13,765	( <sup>2</sup> )	1,608	9,030	1,213
	East North Central	874	205	16,136	82,740	13,044	26,364	60,701	131,282	233,999	5,450	18,679	140,645	17,800
	Ohio.....	200	57	4,592	23,089	3,681	7,485	17,153	36,314	64,558	1,473	6,173	45,599	5,888
	Indiana.....	66	21	1,436	6,834	1,213	2,450	5,425	11,363	20,308	( <sup>2</sup> )	1,512	10,337	912
	Illinois.....	238	62	4,877	24,738	3,889	7,894	17,693	39,796	64,736	1,614	4,988	37,857	5,738
	Michigan.....	306	54	4,489	24,504	3,653	7,401	17,854	38,206	75,275	1,620	5,073	40,843	4,213
	Wisconsin.....	64	11	742	3,575	608	1,134	2,576	5,603	9,122	( <sup>2</sup> )	931	6,006	1,049
	West North Central	r70	r20	r1,633	r7,536	r1,305	r2,606	r5,348	r12,577	r19,810	r619	1,546	8,611	641
	Minnesota.....	23	8	529	2,606	459	975	2,217	4,481	6,787	( <sup>2</sup> )	705	3,865	210
	Missouri.....	r30	r7	r909	r4,176	r690	r1,328	r2,568	r6,894	r11,037	( <sup>2</sup> )	673	3,901	343
	South Atlantic....	16	3	271	1,100	229	429	864	1,899	3,945	( <sup>2</sup> )	260	1,419	
	East South Central	5	3	121	487	108	241	405	816	1,348	( <sup>2</sup> )	52	277	238
	West South Central	15	4	194	900	146	292	621	1,723	2,598	( <sup>2</sup> )	155	903	
	West.....	187	32	2,372	12,534	1,842	3,741	8,883	21,907	33,642	1,023	2,846	20,769	1,209
	California.....	171	27	2,102	11,366	1,666	3,415	8,139	19,498	29,934	946	2,471	18,398	1,103
3452	Bolts, nuts, washers, and rivets, total.....	525	283	53,270	286,039	40,202	80,579	191,886	504,731	880,328	43,707	53,729	411,662	49,235
	New England.....	74	44	9,247	46,121	7,013	14,848	31,533	70,823	119,372	6,394	9,918	68,490	11,157
	Massachusetts....	24	14	4,641	23,263	3,527	7,636	16,424	34,974	57,064	1,553	4,933	33,419	4,108
	Connecticut.....	36	20	3,486	17,858	2,582	5,371	11,572	27,522	47,173	4,633	3,971	28,736	4,268
	Middle Atlantic...	104	53	11,511	61,955	8,221	16,059	39,188	110,957	184,923	14,138	12,131	87,123	11,105
	New York.....	33	13	2,465	13,133	1,776	3,726	8,225	25,643	46,913	2,600	2,970	21,853	2,100
	New Jersey.....	28	14	2,638	15,044	1,818	3,529	9,372	25,760	40,659	714	2,165	21,513	1,376
	Pennsylvania....	43	26	6,408	33,778	4,627	8,804	21,591	59,554	97,351	10,824	6,995	43,756	7,629
	East North Central	230	133	25,788	141,936	19,669	38,791	96,656	244,435	442,155	14,581	27,483	220,348	24,368
	Ohio.....	63	41	9,226	49,417	7,149	13,441	34,326	86,121	153,122	4,444	10,046	76,303	10,318
	Indiana.....	17	10	1,292	6,723	988	1,896	4,548	12,811	23,664	( <sup>2</sup> )	1,351	9,553	1,477
	Illinois.....	86	48	11,175	62,320	8,430	16,919	42,238	105,204	186,205	6,996	10,796	85,362	8,197
	Michigan.....	54	30	3,489	20,369	2,677	5,671	13,626	33,898	68,084	2,577	4,583	42,857	3,633
	Wisconsin.....	10	4	606	3,107	425	864	1,918	6,401	11,080	( <sup>2</sup> )	705	6,272	743
	West North Central	14	5	613	2,606	440	828	1,722	4,374	7,652	( <sup>2</sup> )	486	3,209	526
	Minnesota.....	5	2	278	1,313	224	428	937	2,059	3,896	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Missouri.....	5	2	295	1,153	185	336	694	2,050	3,200	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South Atlantic....	11	6	1,107	4,711	953	1,879	3,271	10,626	18,307	( <sup>2</sup> )	668	5,020	(D)
	East South Central	8	5	801	3,954	671	1,217	2,836	8,853	17,688	( <sup>2</sup> )	661	6,483	749
	West South Central	16	3	327	1,387	254	525	971	3,291	7,357	( <sup>2</sup> )	125	1,143	(D)
	West.....	68	34	3,876	23,369	2,981	6,432	15,709	51,372	82,874	7,282	2,255	19,843	843
	California.....	60	32	3,778	22,828	2,908	6,286	15,374	50,341	80,638	7,252	2,160	19,266	755
3461	Metal stampings, total.....	2,456	1,041	125,567	645,683	99,974	200,401	458,566	1,049,311	2,101,736	50,439	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New England.....	230	93	9,741	48,025	7,788	15,498	33,478	67,846	125,872	4,403	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Massachusetts....	113	53	3,553	16,040	2,868	5,902	11,264	23,377	39,669	1,268	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Rhode Island....	31	10	614	2,515	498	957	1,813	4,865	8,651	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Connecticut.....	80	29	5,526	29,282	4,382	8,559	20,256	39,259	77,036	2,885	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic...	628	241	32,675	165,968	25,460	50,697	116,530	267,179	527,328	10,038	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New York.....	357	113	11,780	55,339	9,567	19,509	39,840	91,021	175,625	3,494	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New Jersey.....	135	58	5,753	28,809	4,561	9,437	20,563	51,046	99,315	1,969	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pennsylvania....	136	70	15,142	81,820	11,332	21,751	56,127	125,112	252,388	4,575	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central	1,093	512	63,485	336,061	50,921	102,184	238,922	554,852	1,123,832	29,945	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Ohio.....	255	131	17,124	90,908	13,834	27,139	66,984	130,646	283,942	4,731	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Indiana.....	83	38	6,246	33,754	4,919	10,245	24,080	59,255	119,994	1,878	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Illinois.....	348	147	17,284	91,055	13,802	27,976	63,066	154,341	298,246	15,655	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Michigan.....	320	148	13,672	77,790	10,940	22,027	54,639	127,333	261,590	4,216	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Wisconsin.....	87	48	9,159	42,734	7,426	14,797	30,153	83,277	160,060	3,465	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	109	46	4,354	21,315	3,458	7,008	15,084	34,477	60,658	1,444	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Minnesota.....	40	17	1,450	7,191	1,144	2,358	5,215	11,020	17,878	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Iowa.....	15	6	1,041	5,112	810	1,675	3,511	7,690	13,699	513	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Missouri.....	42	18	1,562	7,806	1,262	2,491	5,451	13,542	24,933	679	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Kansas.....	6	3	167	769	130	285	582	1,249	1,763	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3461	Metal stampings—Continued													
	South Atlantic....	76	37	5,950	26,722	4,876	9,502	19,998	42,512	101,767	1,262	(4)	(4)	(4)
	Maryland.....	15	8	2,058	10,618	1,587	3,042	7,669	15,832	37,462	(2)	(4)	(4)	(4)
	West Virginia...	9	7	1,515	6,709	1,275	2,425	5,217	9,036	22,383	(2)	(4)	(4)	(4)
	Georgia.....	19	14	1,244	4,405	1,071	2,130	3,367	8,993	22,502	(2)	(4)	(4)	(4)
	Florida.....	10	2	250	849	226	475	696	1,392	4,511	(2)	(4)	(4)	(4)
	East South Central	41	21	2,506	11,203	2,001	4,196	8,432	18,377	39,271	681	(4)	(4)	(4)
	Kentucky.....	15	12	1,432	6,889	1,160	2,539	5,438	9,234	20,047	(2)	(4)	(4)	(4)
	Alabama.....	5	4	513	2,660	341	709	1,687	5,050	12,679	(2)	(4)	(4)	(4)
	West South Central	35	14	1,002	4,302	817	1,655	3,039	7,780	15,964	(2)	(4)	(4)	(4)
	Texas.....	21	9	535	2,262	445	866	1,609	3,809	6,976	(2)	(4)	(4)	(4)
	Mountain.....	6	1	77	232	73	210	217	164	875	(D)	(4)	(4)	(4)
	Pacific.....	238	76	5,777	31,675	4,580	9,451	22,866	56,124	106,169	(D)	(4)	(4)	(4)
	Washington.....	9	1	189	955	147	215	563	2,095	3,635	(2)	(4)	(4)	(4)
	California.....	219	74	5,537	30,516	4,397	9,172	22,173	53,691	101,803	2,188	(4)	(4)	(4)
3471	Plating and polishing, total.....	2,646	542	36,471	156,274	30,543	59,082	117,703	253,784	359,116	15,877	36,066	214,070	28,626
	New England.....	301	64	4,560	17,701	3,858	7,513	13,286	27,955	38,689	1,535	4,229	23,235	3,447
	Massachusetts...	102	25	1,543	5,835	1,306	2,568	4,503	9,246	12,304	598	1,512	8,790	1,356
	Connecticut.....	97	25	1,743	7,745	1,441	2,895	5,639	12,376	17,596	601	1,644	10,163	1,569
	Middle Atlantic...	668	131	8,780	35,727	7,430	14,377	27,340	58,963	85,806	3,396	8,798	53,971	6,269
	New York.....	417	84	5,515	21,956	4,689	9,083	16,788	36,486	51,082	2,298	5,730	32,897	3,747
	New Jersey.....	143	26	1,848	7,611	1,556	2,868	5,683	12,159	17,360	705	1,586	10,751	1,178
	Pennsylvania....	108	21	1,417	6,160	1,185	2,426	4,869	10,318	17,364	(2)	1,482	10,322	1,344
	East North Central	877	211	13,699	61,243	11,413	22,181	45,325	96,538	140,607	5,148	15,916	92,842	14,946
	Ohio.....	231	49	3,170	14,053	2,628	5,216	10,559	22,598	32,285	1,163	4,338	21,999	3,718
	Indiana.....	69	19	1,189	5,289	980	1,891	3,808	9,199	13,026	(2)	1,116	6,343	878
	Illinois.....	253	69	4,799	21,508	4,007	8,005	16,193	33,837	48,644	1,963	4,820	29,346	4,177
	Michigan.....	267	60	3,771	17,101	3,154	5,867	12,334	26,215	40,322	1,375	4,781	30,218	5,580
	Wisconsin.....	57	14	770	3,292	644	1,202	2,431	4,689	6,330	(2)	859	4,934	593
	West North Central	114	17	1,319	6,012	1,099	2,143	4,527	9,901	13,365	989	1,240	7,440	925
	Minnesota.....	34	5	482	2,377	391	761	1,708	3,978	5,400	(2)	434	2,872	304
	Missouri.....	56	9	599	2,619	506	981	2,028	4,234	5,632	(2)	605	3,350	446
	South Atlantic....	83	10	899	3,220	747	1,467	2,440	5,583	7,952	(2)	616	3,614	(D)
	Maryland.....	17	1	129	567	106	204	382	1,028	1,248	(2)	110	795	102
	Georgia.....	10	3	225	791	187	451	603	1,345	1,837	(D)	(3)	(3)	(3)
	Florida.....	25	2	220	774	181	340	626	1,346	1,980	(2)	(3)	(3)	(3)
	East South Central	38	4	307	1,011	266	475	854	1,835	2,746	(2)	279	1,515	(D)
	Tennessee.....	14	3	132	418	119	210	349	738	1,099	(2)	(3)	(3)	(3)
	West South Central	84	12	812	3,175	690	1,324	2,550	5,841	7,723	616	534	2,959	(D)
	Oklahoma.....	16	2	153	589	125	207	463	1,112	1,336	(2)	116	585	24
	Texas.....	58	9	587	2,275	497	985	1,804	4,248	5,721	(2)	391	2,250	133
	Mountain.....	34	3	264	929	205	420	851	1,668	2,048	(2)	124	616	(D)
	Arizona.....	16	2	164	539	119	261	523	930	1,118	(2)	(3)	(3)	(3)
	Pacific.....	447	90	5,831	27,256	4,835	9,182	20,530	45,500	60,180	3,303	4,325	27,874	2,196
	Washington.....	21	2	155	845	122	230	561	1,287	1,737	(2)	127	783	61
	Oregon.....	16	3	220	791	185	253	620	1,332	1,676	(2)	101	597	48
	California.....	410	85	5,456	25,620	4,528	8,699	19,349	42,881	56,767	2,850	4,096	26,493	2,087
3479	Metal coating, engraving, etc., total.....	1,003	192	15,680	68,046	12,892	25,206	49,985	108,379	196,389	4,676	(4)	(4)	(4)
	New England.....	125	18	1,241	4,944	1,077	2,154	3,735	8,028	11,102	(2)	(4)	(4)	(4)
	Massachusetts...	70	16	889	3,719	771	1,590	2,808	6,126	8,233	(2)	(4)	(4)	(4)
	Connecticut.....	18	2	162	640	142	274	515	986	1,619	(2)	(4)	(4)	(4)
	Middle Atlantic...	287	47	4,297	18,591	3,573	7,187	13,851	27,692	41,080	905	(4)	(4)	(4)
	New York.....	181	24	2,213	9,070	1,837	3,552	6,765	13,015	20,019	(2)	(4)	(4)	(4)
	New Jersey.....	66	12	1,000	4,486	840	1,757	3,412	6,741	9,222	(2)	(4)	(4)	(4)
	Pennsylvania....	40	11	1,084	5,035	896	1,878	3,674	7,936	11,839	(2)	(4)	(4)	(4)
	North Central....	322	79	6,340	28,513	5,085	9,827	20,394	46,385	89,911	2,323	(4)	(4)	(4)
	Illinois.....	127	34	2,970	14,223	2,313	4,536	9,924	23,429	53,987	1,301	(4)	(4)	(4)
	Wisconsin.....	15	2	109	579	90	175	463	820	1,224	(2)	(4)	(4)	(4)
	Minnesota.....	15	3	191	894	150	306	619	1,402	2,071	(2)	(4)	(4)	(4)
	South Atlantic....	31	4	426	1,815	350	737	1,332	3,597	6,676	(2)	(4)	(4)	(4)
	Maryland.....	9	4	337	1,512	282	607	1,098	2,995	5,515	(2)	(4)	(4)	(4)
	East South Central	12	5	250	932	214	415	641	1,720	2,647	(2)	(4)	(4)	(4)
	Tennessee.....	7	3	149	503	123	255	347	863	1,508	(2)	(4)	(4)	(4)

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expendi- tures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3479	Metal coating, en- graving, etc.— Continued													
	West South Central	44	15	1,160	4,023	1,016	1,833	3,148	6,845	10,860	(2)	(4)	(4)	(4)
	Texas.....	32	13	1,030	3,346	911	1,616	2,732	5,665	9,161	(2)	(4)	(4)	(4)
	Mountain.....	13	1	80	385	61	120	276	688	1,128	(2)	(4)	(4)	(4)
	Pacific.....	169	23	1,886	8,843	1,516	2,933	6,608	13,424	32,985	(2)	(4)	(4)	(4)
	California.....	151	23	1,812	8,523	1,450	2,807	6,311	12,696	32,079	(2)	(4)	(4)	(4)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>T</sup>Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3451, Screw Machine Products: New England—New Hampshire, 4 (20-99); Vermont, 2 (1-19); Rhode Island, 34 (250-499); West North Central—Iowa, 10 (100-249); Nebraska, 3 (20-99); Kansas, 4 (20-99); South Atlantic—Maryland, 6 (100-249); West Virginia, 1 (20-99); North Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 6 (20-99); East South Central—Tennessee, 2 (20-99); Alabama, 3 (20-99); West South Central—Oklahoma, 2 (20-99); Texas, 13 (100-249); West—Colorado, 3 (20-99); Arizona, 1 (1-19); Washington, 7 (100-249); Oregon, 5 (20-99).

SIC 3452, Bolts, Nuts, Washers, and Rivets: New England—New Hampshire, 3 (100-249); Rhode Island, 11 (500-999); West North Central—Iowa, 1 (20-99); Nebraska, 1 (1-19); Kansas, 2 (1-19); South Atlantic—Maryland, 2 (100-249); North Carolina, 2 (500-999); Georgia, 2 (20-99); Florida, 5 (20-99); East South Central—Kentucky, 1 (1-19); Alabama, 6 (500-999); Mississippi, 1 (20-99); West South Central—Oklahoma, 5 (20-99); Texas, 11 (250-499); West—Idaho, 1 (1-19); Colorado, 1 (1-19); Arizona, 1 (1-19); Washington, (20-99); Oregon, 3 (20-99).

SIC 3461, Metal Stampings: New England—New Hampshire, 4 (20-99); Vermont, 2 (1-19); West North Central—South Dakota, 2 (20-99); Nebraska, 4 (20-99); South Atlantic—Delaware, 3 (250-499); District of Columbia, 1 (1-19); Virginia, 2 (20-99); North Carolina, 15 (250-499); South Carolina, 2 (20-99); East South Central—Tennessee, 20 (500-999); Mississippi, 1 (1-19); West South Central—Arkansas, 3 (250-499); Louisiana, 5 (100-249); Oklahoma, 6 (20-99); Mountain—Colorado, 4 (1-19); Utah, 2 (20-99); Pacific—Oregon, 10 (20-99).

SIC 3471, Plating and Polishing: New England—Maine, 2 (1-19); New Hampshire, 3 (20-99); Vermont, 2 (1-19); Rhode Island, 95 (1,000-2,499); West North Central—Iowa, 10 (100-249); North Dakota, 1 (1-19); South Dakota, 1 (20-99); Nebraska, 2 (20-99); Kansas, 10 (20-99); South Atlantic—Delaware, 1 (1-19); District of Columbia, 4 (20-99); Virginia, 10 (20-99); West Virginia, 2 (20-99); North Carolina, 10 (20-99); South Carolina, 4 (20-99); East South Central—Kentucky, 10 (20-99); Alabama, 10 (20-99); Mississippi, 4 (20-99); West South Central—Arkansas, 3 (20-99); Louisiana, 7 (1-19); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); Colorado, 11 (20-99); Utah, 4 (1-19); Nevada, 1 (1-19).

SIC 3479, Metal Coating, Engraving, Etc.: New England—New Hampshire, 1 (1-19); Rhode Island, 36 (100-249); North Central—Ohio, 61 (1,214); Indiana, 15 (250-499); Michigan, 59 (500-999); Iowa, 5 (20-99); Missouri, 19 (250-499); Nebraska, 4 (20-99); Kansas, 2 (20-99); South Atlantic—Virginia, 2 (1-19); North Carolina, 4 (1-19); South Carolina, 1 (1-19); Georgia, 3 (1-19); Florida, 12 (20-99); East South Central—Kentucky, 2 (1-19); Alabama, 3 (100-249); West South Central—Arkansas, 2 (1-19); Louisiana, 4 (20-99); Oklahoma, 6 (20-99); Mountain—Idaho, 1 (1-19); Colorado, 10 (20-99); Utah, 2 (1-19); Pacific—Washington, 8 (20-99); Oregon, 10 (20-99).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).



Table 3.—Detailed Statistics for the United States: 1958

Item	Screw machine products (SIC 3451)	Bolts, nuts, washers, and rivets (SIC 3452)	Metal stampings (SIC 3461)	Plating and polishing (SIC 3471)	Metal coating, engraving, etc. (SIC 3479)
Primary product specialization ratio <sup>1</sup> .....	94	91	86	(2)	(2)
Coverage ratio <sup>3</sup> .....	87	87	87	(2)	(2)
Number of establishments, total.....	1,792	525	2,456	2,646	1,003
With 1-19 employees.....	1,373	242	1,415	2,104	811
With 20-99 employees.....	376	159	767	514	166
With 100 employees or more.....	43	124	274	28	26
Proprietors and working partners.....Number..	1,143	125	929	1,854	602
All employees:					
Number (average for the year).....	31,836	53,270	125,567	36,471	15,680
Payroll.....\$1,000..	154,925	286,039	645,683	156,274	68,046
Production workers:					
Number (average for the year).....	25,892	40,202	99,974	30,543	12,892
March.....	25,926	41,066	99,216	29,829	12,242
May.....	24,690	37,915	94,106	29,185	12,830
August.....	25,520	39,391	97,990	30,244	13,334
November.....	28,084	42,636	109,272	33,488	13,429
Man-hours .....1,000..	51,915	80,579	200,401	59,082	25,206
January-March.....do....	12,763	20,781	49,562	14,179	5,826
April-June.....do....	12,236	18,047	46,683	13,830	6,152
July-September.....do....	12,087	18,970	48,120	13,948	6,271
October-December.....do....	14,829	22,781	56,036	17,125	6,957
Wages.....\$1,000..	113,989	191,886	458,566	117,703	49,985
Cost of materials, etc., total.....do....	175,111	370,608	1,041,623	106,108	88,846
Materials, parts, containers, and supplies consumed.....do....	142,256	304,574	924,207	82,902	79,794
Cost of resales.....do....	5,307	32,643	43,476	2,936	1,599
Fuels consumed.....do....	1,487	5,035	10,707	5,428	2,624
Electricity purchased.....do....	3,247	6,505	14,026	7,629	2,003
Contract work.....do....	22,814	21,851	49,207	7,213	2,826
Value of shipments (including resales), total.....do....	425,113	880,328	2,101,736	359,116	196,389
Value of resales.....do....	6,726	41,419	57,242	3,811	1,942
Value added by manufacture, adjusted.....do....	249,975	504,731	1,049,311	253,784	108,379
Manufacturers' inventories:					
Beginning of year, total.....do....	48,444	196,939	332,231	21,290	19,324
Finished products.....do....	13,664	91,736	85,275	2,616	2,682
Work-in-process.....do....	14,352	27,001	87,011	1,090	4,032
Materials, supplies, fuel, etc.....do....	20,428	78,202	159,945	17,584	12,610
End of year, total.....do....	48,733	188,139	315,047	23,511	21,400
Finished products.....do....	12,414	85,107	78,864	2,715	2,683
Work-in-process.....do....	15,575	28,641	82,620	1,767	4,867
Materials, supplies, fuel, etc.....do....	20,744	74,391	153,563	19,029	13,850
Expenditures for plant and equipment, total.....do....	14,133	45,879	60,584	17,243	5,383
New, total.....do....	11,222	43,707	50,439	15,877	4,676
New structures and additions to plant.....do....	2,139	18,323	15,117	4,960	1,228
New machinery and equipment.....do....	9,083	25,384	35,322	10,918	3,448
Used plant and equipment.....do....	2,911	2,172	10,145	1,365	707

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

<sup>3</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3451	Screw machine products:											
	Number of establishments.....	<sup>r</sup> 1,792	674	340	359	287	89	<sup>r</sup> 35	6	2	...	...
	All employees:											
	Number.....	<sup>r</sup> 31,836	1,449	2,327	4,928	8,598	5,961	<sup>r</sup> 5,280	<u>3,293</u>	(D)	...	...
	Payroll.....\$1,000..	<sup>r</sup> 154,925	5,856	10,593	23,492	41,980	28,770	<sup>r</sup> 26,760	<u>17,474</u>	(D)	...	...
	Value added, adjusted..do....	<sup>r</sup> 249,975	14,259	19,861	40,454	65,936	42,404	<sup>r</sup> 39,221	<u>27,840</u>	(D)	...	...
	Value of shipments.....do....	<sup>r</sup> 425,113	23,651	33,763	66,690	114,736	76,062	<sup>r</sup> 63,539	<u>46,672</u>	(D)	...	...
3452	Capital expend., new...do....	<sup>r</sup> 11,222	1,086	1,211	1,853	2,883	1,285	<sup>r</sup> 1,319	<u>1,585</u>	(D)	...	...
	Bolts, nuts, washers, and rivets:											
	Number of establishments.....	525	111	56	75	95	64	69	24	23	7	1
	All employees:											
	Number.....	53,270	231	380	1,073	2,835	4,642	10,593	7,997	14,831	<u>10,688</u>	(D)
	Payroll.....\$1,000..	286,039	884	1,758	5,447	15,166	25,754	55,690	44,398	77,151	<u>59,791</u>	(D)
	Value added, adjusted..do....	504,731	2,452	3,918	10,211	28,583	46,996	103,402	84,979	125,740	<u>98,450</u>	(D)
3461	Value of shipments.....do....	880,328	5,756	7,756	20,530	59,227	89,664	195,615	142,007	206,512	<u>153,261</u>	(D)
	Capital expend., new...do....	43,707	574	( <sup>1</sup> )	639	8,814	3,086	4,959	13,235	6,267	<u>5,778</u>	(D)
	Metal stampings:											
	Number of establishments.....	2,456	536	410	469	521	246	180	62	21	9	2
	All employees:											
	Number.....	125,567	1,162	2,787	6,604	16,481	16,839	27,205	21,373	14,613	<u>18,503</u>	(D)
	Payroll.....\$1,000..	645,683	4,639	12,608	30,940	80,398	85,137	137,134	110,376	80,517	<u>103,934</u>	(D)
3471	Value added, adjusted..do....	1,049,311	10,544	22,907	52,962	127,645	146,167	221,521	170,896	144,657	<u>152,012</u>	(D)
	Value of shipments.....do....	2,101,736	18,081	44,709	96,013	238,360	284,203	443,102	371,200	307,745	<u>298,323</u>	(D)
	Capital expend., new...do....	50,439	2,160	1,718	2,970	6,769	4,813	7,745	6,181	6,356	<u>11,727</u>	(D)
	Plating and polishing:											
	Number of establishments.....	2,646	1,020	561	523	402	112	28	...	...	...	...
	All employees:											
	Number.....	36,471	2,129	3,822	7,197	11,830	7,445	4,048	...	...	...	...
3479	Payroll.....\$1,000..	156,274	7,899	15,732	30,978	51,475	31,082	19,108	...	...	...	...
	Value added, adjusted..do....	253,784	17,327	27,215	49,481	81,705	52,232	25,824	...	...	...	...
	Value of shipments.....do....	359,116	24,334	37,375	66,441	116,042	74,627	40,297	...	...	...	...
	Capital expend., new...do....	15,877	2,184	1,698	3,959	4,402	2,711	923	...	...	...	...
	Metal coating, engraving, etc.:											
	Number of establishments.....	1,003	442	175	194	129	37	21	5	...	...	...
	All employees:											
3479	Number.....	15,680	864	1,139	2,635	3,981	2,453	3,060	1,548	...	...	...
	Payroll.....\$1,000..	68,046	3,268	4,511	11,429	18,138	11,335	12,851	6,514	...	...	...
	Value added, adjusted..do....	108,379	7,350	7,623	17,722	28,817	18,308	20,115	8,444	...	...	...
	Value of shipments.....do....	196,389	10,825	11,120	26,090	43,700	30,352	51,647	22,655	...	...	...
	Capital expend., new...do....	4,676	535	513	909	1,218	590	543	( <sup>1</sup> )	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding. <sup>r</sup>Revised.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3451	Screw machine products.....1958.. 1954..	r425,113 406,457	r373,345 348,526	r22,953 26,226	r28,815 31,705	94 93	r428,805 424,762	r373,345 348,526	55,460 76,236	87 82
3452	Bolts, nuts, washers, and rivets.....1958.. 1954..	880,328 738,482	754,705 629,046	72,061 58,925	53,562 50,511	91 91	859,446 706,392	754,705 629,046	104,741 77,346	87 89
3461	Metal stampings.....1958..	2,101,736	1,694,528	281,378	125,830	86	1,948,110	1,694,528	253,582	87
3471	Plating and polishing.....1958.. 1954..	359,116 307,398	349,686 296,408	4,419 6,927	5,011 4,063	( <sup>3</sup> ) ( <sup>3</sup> )	( <sup>4</sup> ) ( <sup>4</sup> )	349,686 296,408	( <sup>4</sup> ) ( <sup>4</sup> )	( <sup>4</sup> ) ( <sup>4</sup> )
3479	Metal coating, engraving, etc..1958..	196,389	184,050	8,930	3,409	( <sup>3</sup> )	( <sup>5</sup> )	184,050	( <sup>5</sup> )	( <sup>5</sup> )

<sup>1</sup>Revised.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>4</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

<sup>5</sup>Data on receipts for plating and polishing not available for establishments classified outside Industry 3471.

<sup>6</sup>Data on receipts for engraving on metal, galvanizing on metal and enameling and lacquering are not available for establishments classified outside Industry 3479.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of production of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of production of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of production of the primary products of the industry made by all manufacturing industries)

Prod. class code	Screw machine products industry	Screw machine products (SIC 3451)	Other industries	All industries
	Total shipments and receipts of the industry.....	r425,113	xxx	xxx
34510	Screw machine products.....	r373,345	155,460	r428,805
	Secondary products.....	r22,953	xxx	xxx
34521	Bolts, nuts, and other standard industrial fasteners.....	7,324	xxx	xxx
	Other secondary products.....	r215,629	xxx	xxx
	Miscellaneous receipts.....	r28,815	xxx	xxx
	Contract and commission work.....	10,135	xxx	xxx
	Scrap and salable refuse.....	r11,954	xxx	xxx
	Resales.....	r6,726	xxx	xxx
Prod. class code	Bolts, nuts, washers and rivets industry	Bolts, nuts, washers and rivets (SIC 3452)	Other industries	All industries
	Total shipments and receipts of the industry.....	880,328	xxx	xxx
	Primary products.....	754,705	104,741	859,446
34521	Bolts, nuts and other standard industrial fasteners.....	573,518	396,042	669,560
34522	Special industrial fasteners other than standard.....	171,414	47,978	179,392
34520	Industrial fasteners, nsk.....	9,773	721	10,494
	Secondary products.....	72,061	xxx	xxx
34510	Screw machine products.....	17,037	xxx	xxx
3461-	Metal stampings.....	5,367	xxx	xxx
35482	Power driven hand tools.....	4,621	xxx	xxx
	Other secondary products.....	545,036	xxx	xxx
	Miscellaneous receipts.....	53,562	xxx	xxx
	Contract and commission work.....	2,349	xxx	xxx
	Scrap and salable refuse.....	9,537	xxx	xxx
	Resales.....	41,419	xxx	xxx
	Other.....	257	xxx	xxx
Prod. class code	Plating and polishing industry	Plating and polishing (SIC 3471)	Other industries	All industries
	Total shipments and receipts of the industry.....	359,116	xxx	xxx
34710	Electroplating, plating and polishing.....	349,686	(6)	(6)
	Secondary products.....	4,419	xxx	xxx
	Miscellaneous receipts, total.....	75,011	xxx	xxx
	Resales.....	3,811	xxx	xxx
	Other.....	1,200	xxx	xxx
Prod. class code	Metal coating, engraving, nec, industry	Metal coating, etc. (SIC 3479)	Other industries	All industries
	Total shipments and receipts of the industry.....	196,389	xxx	xxx
34790	Coating, engraving and allied service, nec.....	184,050	(8)	(8)
	Secondary products.....	8,930	xxx	xxx
	Miscellaneous receipts.....	73,409	xxx	xxx
	Scrap and salable refuse.....	1,077	xxx	xxx
	Resales.....	1,942	xxx	xxx
	Other.....	390	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Metal stampings industry	Metal stampings (SIC 3461)	Other industries	All industries
	Total shipments and receipts of the industry.....	2,101,736	xxx	xxx
	Primary products.....	1,694,528	253,582	1,948,110
34611	Vitreous enameled products.....	57,657	<sup>9</sup> 14,796	72,453
34612	Job stampings, except automotive.....	509,452	<sup>10</sup> 66,726	576,178
34613	Job stampings, automotive.....	456,120	<sup>11</sup> 95,059	551,179
34614	Stamped and spun hospital utensils and cooking and kitchen household utensils, aluminum.....	109,444	1,266	110,710
34615	Stamped and spun hospital utensils and cooking and kitchen household utensils, exc. aluminum..	95,116	<sup>12</sup> 18,365	113,481
34616	Metal commercial closures, except crowns.....	131,133	...	131,133
34617	Crowns.....	80,751	...	80,751
34618	Other stamped and pressed metal end products.....	177,035	<sup>13</sup> 46,236	223,271
34610	Metal stampings, nsk.....	77,820	11,134	88,954
	Secondary products.....	281,378	xxx	xxx
24994	Cork products.....	9,427	xxx	xxx
30793	Molded plastic products, nec.....	4,004	xxx	xxx
30799	Fabricated plastic products, nec.....	11,511	xxx	xxx
34110	Metal cans.....	3,547	xxx	xxx
34294	Builder's hardware.....	2,071	xxx	xxx
34295	Other hardware.....	5,107	xxx	xxx
34310	Metal plumbing fixtures.....	4,065	xxx	xxx
34441	Sheet metal roofing and siding, and roof drainage equipment.....	4,388	xxx	xxx
34443	Other sheet metal work.....	7,891	xxx	xxx
34510	Screw machine products.....	4,676	xxx	xxx
34521	Bolts, nuts, and other standard industrial fasteners.....	3,824	xxx	xxx
34911	Steel shipping pails (1 to 12 gallon cap.).....	3,433	xxx	xxx
34990	Fabricated metal products, nec.....	4,690	xxx	xxx
35227	Lawn mowers and parts.....	7,081	xxx	xxx
35441	Special dies and tools, die sets, jigs, and fixtures.....	58,145	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.....	2,335	xxx	xxx
39932	Nonelectric signs and advertising displays.....	2,455	xxx	xxx
	Other secondary products.....	<sup>14</sup> 142,728	xxx	xxx
	Miscellaneous receipts.....	125,830	xxx	xxx
	Receipts for job stamping done for others on their own material.....	21,027	xxx	xxx
	All other receipts for contract work.....	16,207	xxx	xxx
	Scrap and salable refuse.....	27,853	xxx	xxx
	Resales.....	57,242	xxx	xxx
	Other.....	73,501	xxx	xxx

Revised.

<sup>1</sup>Includes \$17.0 million shipped by Industry 3452, Bolts, Nuts, Washers, and Rivets, and \$4.7 million shipped by Industry 3461, Metal Stampings. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 3351, Copper Rolling and Drawing; 3494, Valves and Pipe Fittings; 3541, Metal Cutting Machine Tools; 3586, Measuring and Dispensing Pumps; 3717, Motor Vehicles and Parts.

<sup>2</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 34320, Plumbing fixture fittings and trim (brass goods); 35197, Parts and accessories for internal combustion engines; 36343, Other small household electric appliances.

<sup>3</sup>Includes \$56.4 million shipped by Industry 3312, Steel Works and Rolling Mills; \$7.3 million shipped by Industry 3451, Screw Machine Products; and \$3.8 million shipped by Industry 3461, Metal Stampings. In addition, Industry 3717, Motor Vehicles and Parts, had shipments which totaled over \$2 million but is withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes Industry 3644, Noncurrent Carrying Wiring Devices, which had shipments that totaled over \$2 million but is withheld to avoid disclosing individual company figures.

<sup>5</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 35482, Power driven hand tools including parts and attachments; 37176, Parts and accessories for passenger cars, trucks, and buses, shipped to other than motor vehicle manufacturers; 39642, Needles, pins, fasteners (except slide), and similar notions.

<sup>6</sup>Data on receipts for electroplating, plating and polishing not available for establishments classified outside the Plating and Polishing Industry.

<sup>7</sup>Does not include receipts for contract work on materials owned by others. These receipts are included in the primary products of the industry.

<sup>8</sup>Data on receipts for engraving on metal, galvanizing on metal, and enameling and lacquering are not available for establishments classified outside the Metal Coating, Engraving, NEC Industry.

<sup>9</sup>Includes \$2.6 shipped by Industry 3993, Signs and Advertising Displays. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 3431, Plumbing Fixtures; and 3433, Nonelectric Heating Equipment.

<sup>10</sup>Includes \$5.4 million shipped by Industry 3429, Hardware, NEC; \$2.3 million by Industry 3444, Sheet Metal Work; \$2.4 million by Industry 3481, Fabricated Wire Products, NEC; \$3.5 million by Industry 3544, Special Dies and Tools; \$4.3 million by Industry 3717, Motor Vehicles and Parts. In addition, the following industries had shipments which totaled over \$2 million but are withheld to avoid disclosing individual company figures: Industry 3069, Fabricated Rubber Products, NEC; Industry 3312, Blast Furnaces and Steel Mills; Industry 3621, Motors and Generators; and Industry 3631, Household Cooking Equipment.

<sup>11</sup>Includes \$72.0 million shipped by Industry 3717, Motor Vehicles and Parts, and \$4.0 million by Industry 3544, Special Dies and Tools. In addition, the following industries had shipments which totaled over \$2 million but are withheld to avoid disclosing individual company figures: Industry 3351, Copper Rolling and Drawing; Industry 3481, Fabricated Wire Products, NEC; and Industry 3722, Aircraft Engines and Parts.

<sup>12</sup>Includes the following industries which had shipments totaling \$2 million or more but are withheld to avoid disclosing individual company figures: 3312, Blast Furnaces and Steel Mills; 3411, Metal Cans; 3634, Electric Housewares and Fans; and 3717, Motor Vehicles and Parts.

<sup>13</sup>Includes \$4.2 million shipped by Industry 3423, Edge Tools; \$2.3 million shipped by Industry 3444, Sheet Metal Work; \$2.5 million shipped by Industry 3481, Fabricated Wire Products, NEC; and \$7.9 million shipped by Industry 3491, Metal Barrels, Drums, and Pails. In addition, the following industries had shipments which totaled over \$2 million but are withheld to avoid disclosing individual company figures: 3312, Blast Furnaces and Steel Mills; 3821, Mechanical Measuring Devices; and 3964, Needles, Pins, and Fasteners.

<sup>14</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 25144, Other metal household furniture; 25420, Metal partitions, shelving, lockers, and office and store fixtures; 28993, Essential oils, fireworks and pyrotechnics, chemical and chemical preparations, nec; 32932, Gaskets, all types; 33610, Aluminum and aluminum-base alloy castings; 33911, Drop, upset and press steel forgings (closed die); 33920, Nonferrous forgings; 34320, Plumbing fixture fittings and trim (brass goods); 34413, Other fabricated structural iron and steel; 36343, Other small household electric appliances; 37175, Parts and accessories for passenger cars, trucks, and buses, shipped to motor vehicle manufacturers; 39410, Games and toys, except dolls and children's vehicles; 39642, Needles, pins, fasteners (except slide), and similar notions; and 39933, Advertising novelties.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Value (\$1,000)			
		1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3451---	Screw-machine products, total.....		<sup>1</sup> 428,805		424,762
3451012	Automotive.....		77,298		
3451022	Aircraft and ordnance.....		<sup>1</sup> 54,497		
3451042	Household appliances (including radio and television).....		<sup>1</sup> 37,880		
3451062	Machinery.....		36,537		424,762
3451098	All other screw machine products.....		<sup>1</sup> 138,652		
3451000	Screw-machine products, nsk.....		83,941		
		Total shipments including interplant transfers			
		1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3452---	Bolts, nuts, washers, and rivets, total.....	xxx	859,446	xxx	706,392
34521--	Bolts, nuts, screws, washers, rivets, and other industrial fasteners--standard types only.....	xxx	669,560	xxx	568,728
3452111	Bolts, threaded rods, lag screws, and studs (including nuts when nuts and bolts are sold as a unit).....	1,000 lbs...	741,791	941,843	202,152
3452113	Nuts:				
	Standard nuts (Hexagon or square; regular, heavy, or jam; finished, semifinished, or unfinished; including slotted or castle) (excluding sheet-metal nuts).....	...do.....	127,252	49,127	
3452115	Locknuts, aircraft (excluding sheet-metal locknuts).....	...do.....	(NA)	19,875	
3452117	Locknuts, commercial (excluding sheet metal locknuts).....	...do.....	26,482	16,486	
3452119	Other nuts (including machine screw and stove bolt nuts, wing nuts, and all sheet-metal nuts).....	...do.....	48,058	26,923	
	Screws:				
3452123	Cap screws, hexagon head, 1/4" diameter and larger.....	1,000 pieces	1,980,573	48,422	
3452125	Other cap and set screws.....	...do.....	820,608	36,226	
3452133	Machine screws (including stove bolts).....	...do.....	13,410,495	59,465	
3452136	Tapping screws (thread forming and thread cutting screws, including sheet-metal and hardened metallic drive screws).....	...do.....	9,706,451	34,722	
3452137	Wood and wood drive screws.....	1,000 gross.	59,632	26,773	
	Washers:				
3452141	Plate (flat).....	1,000 lbs...	94,706	18,732	
3452145	Spring and lock.....	1,000 pieces	7,801,492	17,147	
	Rivets:				
3452151	Aircraft rivets.....	1,000 lbs...	(NA)	19,457	
3452153	7/16" and under (other than aircraft).....	...do.....	103,851	27,131	
3452157	1/2" and over (other than aircraft).....	...do.....	84,968	12,919	
3452181	Pins (aircraft, straight, dowel, clevis, cotter, and miscellaneous patent).....	xxx	9,185		
3452198	Other standard fasteners (including toggle bolts, etc.).....	xxx	24,386		
3452100	Bolts, nuts, screws, rivets, etc., nsk.....	xxx	29,494		
34522--	Special industrial fasteners other than standard type.....	xxx	179,392	(NA)	137,664
3452212	Made on the same machines (headers, threaders, and nut forming machines) that are used in the production of bolts, nuts, rivets, etc.....	xxx	133,479	xxx	90,959
3452252	Made on machines other than headers, threaders, and nut forming machines.....	xxx	36,005	xxx	46,705
3452200	Specials, nsk.....	xxx	9,908	xxx	...
3452000	Bolts, nuts, washers, and rivets, nsk.....	xxx	10,494	xxx	...
3461---	Metal stampings, total.....	xxx	1,948,110	xxx	1,699,902
34611--	Vitreous-enameled products.....	xxx	<sup>2</sup> 72,453	xxx	<sup>2</sup> 67,138
3461111	Cooking and kitchen utensils (including household, commercial, and hospital).....	xxx	21,707	xxx	<sup>1</sup> 17,279
3461131	Refrigerator parts (household and commercial), sold separately....	xxx	1,671	xxx	6,402
3461141	Architectural vitreous (porcelain) parts (exterior and interior) including store fronts and curtain walls.....	xxx	16,954	xxx	12,088
3461171	Washing machine parts (sold separately).....	xxx	8,754	xxx	13,653
3461198	Other vitreous (porcelain) enameled products.....	xxx	21,083	xxx	<sup>1</sup> 17,716
3461100	Vitreous enameled products, nsk.....	xxx	2,284	xxx	...
34612--	Job stampings, except automotive <sup>3</sup> .....	xxx	576,178	xxx	510,422
3461211	Aviation stampings.....	xxx	29,945	xxx	29,403
3461215	Agriculture equipment stampings (including tractors).....	xxx	28,568	xxx	24,618
3461221	Electrical appliance stampings (except refrigeration and washing machines).....	xxx	50,496	xxx	30,286

See footnotes at end of table.



**SCREW MACHINE PRODUCTS, BOLTS, METAL STAMPINGS, AND METAL SERVICES 34D-19**

**Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued**

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3461---	Metal stampings--Continued					
34612--	Job stampings, except automotive <sup>3</sup> --Continued					
3461231	Furniture stampings.....	.....	xxx	14,397	xxx	8,259
3461241	Office machine stampings.....	.....	xxx	14,445	xxx	6,021
3461251	Radio and television stampings.....	.....	xxx	73,914	xxx	86,944
3461261	Refrigerator stampings.....	.....	xxx	43,392	xxx	44,196
3461271	Stove, heater, and air-conditioning stampings.....	.....	xxx	21,462	xxx	22,924
3461281	Washing machine stampings.....	.....	xxx	23,150	xxx	19,266
3461298	Other job stampings.....	.....	xxx	231,336	xxx	215,703
3461200	Job stampings, except automotive, nsk.....	.....	xxx	45,073	xxx	22,802
3461313	Automotive stampings (truck, bus, and passenger car) <sup>3</sup> .....	.....	xxx	551,179	xxx	474,349
34614--	Stamped and spun hospital utensils, and cooking and kitchen household utensils, aluminum.....	.....	xxx	110,710	xxx	92,517
3461401	Household (including domestic pressure cookers).....	.....	xxx	96,875	}	92,517
3461405	Commercial and hospital.....	.....	xxx	13,835		
34615--	Stamped and spun hospital utensils and cooking and kitchen household utensils, except aluminum.....	.....	xxx	113,481	xxx	108,385
3461513	Stainless steel.....	.....	xxx	61,240	xxx	61,902
3461515	Tinware.....	.....	xxx	12,176	xxx	16,269
3461519	Other metal.....	.....	xxx	23,515	xxx	16,532
3461551	Hospital utensils, excluding cooking and kitchen.....	}	xxx	16,550	xxx	5,289
3461500	Stamped and spun hospital utensils and cooking and kitchen utensils, nsk..				xxx	8,393
34616--	Metal commercial closures, except crowns <sup>4</sup> .....	.....	xxx	131,133	xxx	94,949
	Screw thread and lug types (nonvacuum) for glass containers:					
3461611	Aluminum.....	1,000 units.	2,140,799	13,808	<sup>5</sup> 1,820,782	<sup>5</sup> 10,103
3461631	Tin mill.....	..do.....	7,407,765	49,986	<sup>5</sup> 7,025,355	<sup>5</sup> 41,778
3461641	Vacuum types (aluminum and tin mill) for glass containers.....	..do.....	4,440,600	44,246	<sup>5</sup> 3,478,075	<sup>5</sup> 32,272
3461645	Other metal commercial closures (aluminum and tin mill) for glass containers.....	..do.....	602,030	1,634	<sup>5</sup> 496,817	<sup>5</sup> 2,221
3461647	Metal commercial closures for metal and plastic containers (excluding caps for collapsible tubes but including caps for flexible, noncollapsing plastic containers).....	.....	xxx	11,284	( <sup>5</sup> )	( <sup>5</sup> )
3461651	Milk bottle closures (aluminum and tin mill only).....	.....	(NA)	10,175	(NA)	8,265
3461600	Metal commercial closures (except crowns), nsk.....	.....	xxx		xxx	310
3461711	Metal crowns for glass and metal containers <sup>4</sup> .....	1,000 gross.	310,302	80,751	330,939	78,443
34618--	Other stamped and pressed metal end products.....	.....	xxx	223,271	xxx	246,513
	Metal home canning closures <sup>4</sup> :					
	Tin mill products:					
3461811	Metal screw bands.....	1,000 gross.	2,975	5,655	2,929	4,801
3461831	Metal lids (flowed-on-rubber).....	..do.....	10,063	12,114	9,446	11,134
3461849	Other home canning closures.....	.....	(NA)	1,738	(NA)	1,738
3461859	Perforated metal end products.....	.....	xxx	14,814	xxx	20,238
	Pails, ash cans, garbage cans, tubs, etc. (excluding shipping containers):					
3461861	Galvanized steel.....	.....	xxx	32,219	xxx	31,440
3461871	Other steel.....	.....	xxx	7,322	xxx	8,188
3461881	Other metal.....	.....	xxx	589	xxx	3,561
3461898	Other stamped and pressed metal end products.....	.....	xxx	<sup>6</sup> 147,713	xxx	163,950
3461800	Other stamped and pressed metal end products, nsk.....	.....	xxx	2,845	xxx	1,463
3461000	Metal stampings, nsk.....	.....	xxx	88,954	xxx	27,186
3471011	Electroplating, plating and polishing <sup>8</sup> .....	.....	xxx	349,686	xxx	296,408
34790--	Metal coating and engraving, nec.....	.....	xxx	184,050	xxx	95,910
3479011	Engraving on metal <sup>8</sup> .....	.....	xxx	}	xxx	24,876
3479031	Galvanizing and other hot dip coating <sup>8</sup> .....	.....	xxx		xxx	27,756
3479051	Enameling, japanning, and lacquering <sup>8</sup> .....	.....	xxx		xxx	43,278

NA Not available. <sup>1</sup>Revised.

<sup>2</sup>Quantity in thousand pieces.

<sup>3</sup>Data are limited to vitreous-enamelled products produced from materials owned by the producing company. Data do not include the value of receipts for enameling work done on materials owned by others (enameling of metal products for the trade).

<sup>4</sup>"Job stampings" are mainly parts which are sold to other manufacturers for incorporation into their own products. Job stampings may be made from materials owned by the establishment or from materials owned by the customer. These figures represent only those stampings made from materials owned by the establishment performing the stamping operation. See table 5B for the value received for the stamping of materials owned by the customer.

Footnotes continued on next page.





Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Vitreous-enameled products (34611)--Continued</u>	1958 <sup>1</sup>		<u>Job stampings, automotive (34613)--Continued</u>	1958 <sup>1</sup>	1954	<u>Metal commercial closures, except crowns (34616)--Continued</u>	1958 <sup>1</sup>	1954
East South Central.....	6,802		Middle Atlantic.....	65,425	77,222	United States, total--Continued		
West South Central.....	2,145		New York.....	9,188	14,017	1951.....		95,394
Pacific.....	2,157		Pennsylvania.....	55,614	61,717	1950.....		89,544
			East North Central.....	429,546	364,468	1947.....		45,918
<u>Job stampings, except automotive (34612)</u>	Value of shipments		Ohio.....	80,636	77,590		1958 <sup>1</sup>	1954
United States, total:			Indiana.....	44,574	19,988	Middle Atlantic.....	40,946	31,419
1958.....	576,178		Illinois.....	26,170	15,820	New York.....	5,430	( <sup>2</sup> )
1957.....	676,994		Michigan.....	265,791	239,423	New Jersey.....	16,776	( <sup>2</sup> )
1956.....	667,436		Wisconsin.....	12,575	11,646	Pennsylvania.....	18,740	16,464
1955.....	609,665		South Atlantic.....	21,146	( <sup>2</sup> )	North Central.....	66,484	44,465
1954.....	510,422		East South Central.....	3,652	( <sup>2</sup> )	Indiana.....	17,673	( <sup>2</sup> )
1953.....	544,879		Pacific.....	18,884	( <sup>2</sup> )	Illinois.....	46,522	32,028
1952.....	448,092					Pacific.....	7,294	( <sup>2</sup> )
1951.....	496,953		<u>Stamped and spun hospital utensils and cooking and household utensils, aluminum (34614):</u>	Value of shipments		California.....	7,294	( <sup>2</sup> )
1950.....	438,191		United States, total:				Value of shipments	
1947.....	359,794		1958.....	110,710		<u>Crowns (34617):</u>		
			1954.....	92,517		United States, total:		
New England.....	60,960	55,096		1958 <sup>1</sup>		1958.....		80,751
Massachusetts.....	19,601	19,311	Middle Atlantic.....	30,088		1954.....		78,443
Rhode Island.....	3,487	3,390	New York.....	3,051		1953.....		79,604
Connecticut.....	37,329	32,008	East North Central.....	71,855		1952.....		83,971
Middle Atlantic.....	157,860	135,096	Ohio.....	9,042		1951.....		76,141
New York.....	70,325	61,988	Illinois.....	2,506		1950.....		76,492
New Jersey.....	40,659	29,891	Wisconsin.....	57,194		1947.....		60,429
Pennsylvania.....	46,876	45,217	West North Central.....	1,360			1958 <sup>1</sup>	
East North Central.....	273,994	251,413	Pacific.....	1,716		Middle Atlantic.....		24,810
Ohio.....	81,633	88,509				North Central.....		15,908
Indiana.....	20,590	20,669				South and West.....		40,033
Illinois.....	109,446	80,721	<u>Stamped and spun hospital utensils and cooking and kitchen household utensils, excluding aluminum (34615):</u>	Value of shipments			Value of shipments	
Michigan.....	31,366	33,539	United States, total:			United States, total:		
Wisconsin.....	31,159	27,974	1958.....	113,481		1958.....		223,271
West North Central.....	29,066	18,781	1954.....	108,385		1954.....		246,513
Minnesota.....	11,570	7,781		1958 <sup>1</sup>			1958 <sup>1</sup>	
Iowa.....	6,680	2,471	New England.....	2,672		New England.....		20,772
Missouri.....	9,197	7,017	Massachusetts.....	1,044		Massachusetts.....		7,594
South Atlantic.....	10,319	11,305	Middle Atlantic.....	38,080		Connecticut.....		9,995
West Virginia.....	5,549	7,208	New York.....	30,350		Middle Atlantic.....		50,358
North Carolina.....	1,669	1,010	Pennsylvania.....	7,169		New York.....		24,363
Georgia.....	1,682	( <sup>3</sup> )	East North Central.....	55,789		New Jersey.....		5,544
East South Central.....	13,942	11,628	Ohio.....	11,041		Pennsylvania.....		20,451
Kentucky.....	12,364	11,284	Illinois.....	27,109		East North Central.....		106,687
West South Central.....	3,134	1,421	Wisconsin.....	15,098		Ohio.....		46,947
Pacific.....	25,964	25,039	West North Central.....	2,673		Indiana.....		17,121
			South Atlantic.....	5,894		Illinois.....		31,514
<u>Job stampings, automotive (34613):</u>	Value of shipments		Pacific.....	6,407		Michigan.....		5,207
United States, total:			California.....	6,407		Wisconsin.....		5,898
1958.....	551,179		<u>Metal commercial closures, except crowns (34616):</u>	Value of shipments		West North Central.....		16,768
1957.....	669,768		United States, total:			Iowa.....		4,896
1956.....	560,977		1958.....	131,133		Missouri.....		7,865
1955.....	671,193		1957.....	123,265		South Atlantic.....		5,090
1954.....	474,349		1956.....	116,680		West Virginia.....		3,237
1953.....	971,168		1955.....	108,664		East South Central.....		5,232
1952.....	704,767		1954.....	94,949		West South Central.....		2,984
1951.....	829,084					Texas.....		1,483
1950.....	741,280					Pacific.....		15,380
1947.....	401,041					California.....		13,400
New England.....	7,669	6,252						
Connecticut.....	4,490	( <sup>2</sup> )						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 34521, New Hampshire, Rhode Island, Minnesota, Missouri, Maryland, North Carolina, Alabama, Washington, and California; 34522, Connecticut, Indiana, and California; 34611, Massachusetts, New York, Indiana, Wisconsin, West Virginia, North Carolina, Kentucky, Tennessee, Texas, and California; 34612, Kansas, Tennessee, Arkansas, and California; 34613, Massachusetts, West Virginia, Georgia, Florida, Kentucky, Arkansas, and California; 34614, New Jersey, Pennsylvania, Indiana, Michigan, Georgia, and California; 34615, Michigan, Minnesota, Missouri, Maryland, and Kentucky; 34616, Missouri, Maryland, and West Virginia; 34617, New York, New Jersey, Pennsylvania, Indiana, Illinois, Wisconsin, Missouri, Delaware, Maryland, Alabama, Louisiana, Texas, and California; 34618, Rhode Island, Minnesota, Georgia, Kentucky, Alabama, and Washington.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

Table 7—Materials Consumed, by Kind: 1958 and 1954

Code	Description of materials	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 3451—SCREW MACHINE PRODUCTS						
	Materials, parts, containers and supplies, total.....		xxx	r142,256	xxx	128,899
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	r177,433	r40,890	178,493	32,755
331212	Sheet and strip.....	do.....	r2,250	r445	6,338	970
331217	Wire and wire products.....	do.....	13,105	2,605	6,750	1,135
331213	All other carbon steel mill shapes and forms.....	do.....	(NA)	1,087	5,799	1,345
331215						
331219						
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	r16,412	r4,924	17,430	4,691
331225	All other alloy steel mill shapes and forms.....	do.....	(NA)	781	1,853	1,047
331231	Stainless steel mill shapes and forms.....	do.....	r4,563	r5,566	3,922	4,060
	Copper and copper-base alloy:					
363111	Insulated wire and cable.....	1,000 pounds copper content	176	59	67,025	27,192
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	1,000 pounds...	r70,403	r25,139		
	Aluminum and aluminum base alloy mill shapes and forms:					
335257	Sheet, plate, and foil.....	do.....	1,779	1,235	12,871	7,084
335259	All other aluminum mill shapes and forms.....	do.....	r6,472	r4,293		
	Castings <sup>1</sup> (rough and semifinished):					
332311	Steel.....	Short tons....	1,668	791	530	335
336121	Copper and copper-base alloy.....	1,000 pounds...	647	404	541	283
336111	Aluminum and aluminum-base alloy.....	do.....	664	501	412	284
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	r24,424	xxx	47,718
973000	Materials, nsk.....		xxx	r29,112	...	...
INDUSTRY 3452—BOLTS, NUTS, WASHERS, AND RIVETS						
	Materials, parts, containers and supplies, total.....		xxx	304,574	xxx	263,017
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	212,405	35,392	340,441	38,440
331212	Sheet and strip.....	do.....	107,726	17,502	118,748	15,112
331213	Plates.....	do.....	13,855	1,567	10,880	755
331215	Structural shapes.....	do.....	283	52	1,730	201
331217	Wire and wire products.....	do.....	541,806	96,504	436,319	64,809
331219	All other carbon steel mill shapes and forms.....	do.....	16,864	3,071	112,870	15,402
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	20,099	5,938	22,165	5,979
331225	All other alloy steel mill shapes and forms.....	do.....	30,866	8,457	42,271	11,233
331231	Stainless steel mill shapes and forms.....	do.....	11,054	14,703	6,963	7,843
335119	Copper and copper-base alloy mill shapes and forms (except electrical wire).....	1,000 pounds...	43,792	21,491	53,922	25,340
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate, and foil.....	do.....	1,900	1,022	11,575	5,760
335259	All other aluminum mill shapes and forms.....	do.....	10,303	6,234		
	Castings <sup>1</sup> (rough and semifinished):					
332311	Steel.....	Short tons....	2,441	1,286	2,913	1,220
336121	Copper and copper-base alloy.....	1,000 pounds...	(D)	(D)	472	259
336111	Aluminum and aluminum-base alloy.....	do.....	1,527	777	438	242
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	70,189	xxx	70,422
973000	Materials, nsk.....		xxx	r20,389	xxx	...

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Description of materials	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)
	INDUSTRY 3461—METAL STAMPINGS			
	Materials, parts, containers and supplies, total.....		xxx	924,207
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons.....	74,127	12,615
331212	Sheet and strip.....	do.....	1,702,467	247,185
331218	Tin plate,terneplate,and black plate.....	do.....	413,199	74,073
331213	Plates.....	do.....	70,793	9,723
331215	Structural shapes.....	do.....	7,789	1,241
331217	Wire and wire products.....	do.....	39,313	8,971
331219	All other carbon steel mill shapes and forms.....	do.....	11,717	3,127
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	3,867	2,072
331225	All other alloy steel mill shapes and forms.....	do.....	46,749	14,517
331231	Stainless steel mill shapes and forms.....	do.....	59,187	62,702
	Copper and copper-base alloy:			
335111	Bare wire for electrical conduction.....	1,000 pounds....	2,565	1,521
363111	Insulated wire and cable.....	1,000 pounds copper content.	188	150
335119	All other copper and copper-base mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 pounds....	70,303	33,504
	Aluminum and aluminum-base mill shapes and forms:			
335257	Sheet, plate, and foil.....	do.....	168,783	72,343
335259	All other aluminum mill shapes and forms.....	do.....	13,552	6,878
333311	Zinc and zinc-base alloy refinery shapes.....	Short tons.....	11,390	2,631
	Castings <sup>1</sup> (rough and semi-finished):			
332011	Iron (gray and malleable).....	do.....	8,226	2,716
332311	Steel.....	do.....	6,960	2,004
336121	Copper and copper-base alloy.....	1,000 pounds....	509	327
336111	Aluminum and aluminum-base alloy.....	do.....	7,179	4,697
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	361,210

D Withheld to avoid disclosing the figures of individual companies.

NA Not available. <sup>2</sup>Revised.<sup>1</sup>Does not include castings produced and consumed in the same establishment.<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, (b) total cost of materials reported for establishments which failed to report the costs of individual materials on "standard forms," and (c) discrepancies between total cost of materials and detailed materials on the reports for other establishments.

## MANUFACTURES-INDUSTRY STATISTICS

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3452	BOLTS, NUTS, WASHERS, AND RIVETS (entire industry).....	525	53,270	286,039	40,202	80,579	191,886	504,731	370,608	880,328	43,707
	Establishments with:										
	90% or more specialization.....	430	38,015	203,672	28,795	57,875	136,752	363,958	280,840	648,295	38,665
	75-89% specialization.....	35	7,780	41,727	5,729	11,113	27,214	70,652	45,027	115,951	2,960
34521	Bolts, nuts, and other standard industrial fasteners:										
	All establishments specializing in product class.....	362	42,925	226,240	32,578	64,870	152,367	400,760	300,860	703,913	38,821
	Establishments with:										
	90% or more specialization	256	16,380	85,760	12,762	25,678	57,843	157,268	146,117	304,767	22,832
	75-89% specialization.....	45	13,677	72,470	10,094	20,145	47,484	132,922	83,958	218,121	10,501
34522	Special industrial fasteners, other than standard type:										
	All establishments specializing in product class.....	109	9,890	57,746	7,266	15,067	37,951	100,244	66,065	168,763	4,593
	Establishments with:										
	90% or more specialization	70	2,271	12,394	1,780	3,644	8,779	22,652	19,372	41,890	1,636
	75-89% specialization.....	10	2,269	13,824	1,441	2,886	7,669	22,667	11,533	34,997	824
3461	METAL STAMPINGS (entire industry).....	2,456	125,567	645,683	99,974	200,401	458,566	1,049,311	1,041,623	2,101,736	50,439
	Establishments with:										
	90% or more specialization.....	1,651	70,252	352,224	57,022	114,122	255,706	615,661	613,585	1,230,248	33,060
	75-89% specialization.....	254	22,939	124,035	17,493	35,269	83,095	169,997	169,345	344,638	6,031
34611	Vitreous enameled products:										
	All establishments specializing in product class.....	49	6,543	30,237	5,132	10,095	21,827	42,907	43,923	87,312	1,940
	Establishments with:										
	90% or more specialization	30	2,124	8,948	1,757	3,402	6,559	13,239	9,791	23,016	( <sup>1</sup> )
	75-89% specialization.....	4	191	786	161	332	616	1,032	649	1,691	( <sup>1</sup> )
34612	Job stampings, except automotive:										
	All establishments specializing in product class.....	946	45,888	237,626	36,854	74,779	168,430	351,965	314,135	671,510	21,369
	Establishments with:										
	90% or more specialization	488	15,016	75,273	12,342	24,902	54,428	123,982	107,187	230,371	5,712
	75-89% specialization.....	139	6,877	34,751	5,505	11,342	24,706	46,511	44,506	91,134	1,555
34613	Job stampings, automotive:										
	All establishments specializing in product class.....	373	28,467	161,729	22,307	45,160	114,335	241,258	278,180	522,991	7,228
	Establishments with:										
	90% or more specialization	201	11,861	65,361	9,565	19,639	47,566	109,958	125,365	237,551	3,749
	75-89% specialization.....	65	4,030	21,897	3,274	6,525	15,602	34,065	40,396	74,451	846
34614	Stamped and spun hospital utensils, and cooking and kitchen household utensils, aluminum:										
	All establishments specializing in product class.....	33	6,780	31,200	5,367	10,542	21,534	79,666	70,134	149,803	2,203
	Establishments with:										
	90% or more specialization	20	2,215	11,419	1,662	3,153	7,942	33,224	28,673	60,961	637
34615	Stamped and spun hospital utensils and cooking and kitchen household utensils, except aluminum:										
	All establishments specializing in product class.....	80	6,084	30,483	4,532	8,929	19,907	54,692	53,345	108,770	2,853
	Establishments with:										
	90% or more specialization	50	1,454	6,783	1,179	2,262	5,291	16,650	20,695	37,324	705
	75-89% specialization.....	11	2,129	11,168	1,457	3,024	6,184	15,584	12,871	28,663	705
34616	Metal commercial closures, except crowns:										
	All establishments specializing in product class.....	35	5,878	30,051	4,747	9,614	21,512	64,927	69,846	134,973	3,380
	Establishments with:										
	90% or more specialization	21	3,144	17,377	2,491	5,013	12,212	37,381	40,944	78,103	2,382
	75-89% specialization.....	4	308	1,754	236	455	1,103	3,092	4,182	7,348	( <sup>1</sup> )
34617	Crowns:										
	All establishments specializing in product class.....	19	5,057	26,969	3,974	7,968	19,692	50,778	73,588	126,458	1,883
	Establishments with:										
	90% or more specialization	12	1,202	6,426	940	2,002	4,287	14,379	21,794	36,667	( <sup>1</sup> )

See footnotes at end of table.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34018	METAL STAMPINGS (entire industry)—Continued										
	Other stamped and pressed metal end products:										
	All establishments specializing in product class.....	177	12,446	61,494	10,091	20,016	43,907	99,276	93,879	193,828	3,853
	Establishments with:										
	90% or more specialization	115	5,406	25,095	4,293	8,468	17,051	45,587	38,002	83,765	1,771
	75-89% specialization.....	23	1,848	9,435	1,440	2,924	6,231	15,132	14,887	30,265	780

<sup>1</sup>Less than \$500 thousand.

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3451—SCREW MACHINE PRODUCTS							
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)
Nonferrous foundry (except die casting).....	1	1	...	...	(D)	(D)	...	...
Nonferrous die casting.....	2	...	1	1	(D)	...	(D)	(D)
Forging.....	3	3	...	...	6	6	...	...
Electroplating.....	13	9	3	1	53	10	(D)	(D)
Galvanizing and other hot dip coating.....	3	3	...	...	5	5	...	...
Heat treating and annealing.....	41	33	7	1	193	64	(D)	(D)
Machine shop.....	392	138	189	65	4,864	342	1,890	2,632
Tool and die shop.....	140	96	42	2	606	192	(D)	(D)
Plate or structural fabrication.....	3	2	1	...	23	(D)	(D)	...
Stamping, blanking, and forming.....	56	36	16	4	308	66	146	96
	INDUSTRY 3452—BOLTS, NUTS, WASHERS AND RIVETS							
Nonferrous foundry (except die casting).....	4	2	...	2	(D)	(D)	...	(D)
Nonferrous die casting.....	5	3	1	1	35	(D)	(D)	(D)
Forging.....	17	3	9	5	311	5	94	212
Electroplating.....	61	27	24	10	617	51	207	359
Galvanizing and other hot dip coating.....	24	16	7	1	132	34	(D)	(D)
Heat treating and annealing.....	125	71	41	13	893	159	340	394
Automatic screw machine department.....	95	26	47	22	1,929	61	481	1,387
Machine shop.....	175	53	71	51	3,610	131	759	2,720
Tool and die shop.....	126	46	44	36	2,749	116	450	2,183
Foundry pattern shop.....	4	3	1	...	11	(D)	(D)	...
Plate or structural fabrication.....	6	5	1	...	18	(D)	(D)	...
Stamping, blanking, and forming.....	117	32	35	50	4,896	81	365	4,450
Painting, lacquering, and enameling.....	26	22	4	...	92	48	44	...

See footnotes at end of table.

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry. 1958--Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3461—METAL STAMPINGS							
Nonferrous die casting.....	19	9	8	2	133	17	(D)	(D)
Forging.....	16	4	7	5	320	10	64	246
Electroplating.....	86	33	40	13	959	78	389	492
Galvanizing and other hot dip coating.....	29	14	11	4	317	28	114	175
Heat treating and annealing.....	124	106	16	2	432	170	(D)	(D)
Automatic screw machine department.....	40	r22	14	r4	r541	r47	116	r378
Machine shop.....	369	r174	146	r49	r4,720	r402	1,261	r3,057
Tool and die shop.....	641	277	290	74	8,630	709	2,579	5,342
Foundry pattern shop.....	24	19	4	1	162	34	(D)	(D)
Plate or structural fabrication.....	59	18	24	17	1,670	37	217	1,416
Stamping, blanking, and forming.....	1,086	103	r494	r489	r49,947	308	r5,242	r44,397
Painting, lacquering, and enameling.....	370	205	108	57	4,221	439	1,013	2,769

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry		
	3451	3452	3461
Total number of establishments in the industry.....	1,794	525	2,456
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	1,655	458	2,148
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	90-95	90-95

D Withheld to avoid disclosing operations of individual companies.      r Revised.



## Fabricated Metal Products, N. E. C.

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

### S.I.C. Code and Title (1957 Edition)

- 3481--Miscellaneous Fabricated Wire Products
- 3491--Metal Shipping Barrels, Drums, Kegs, and Pails
- 3492--Safes and Vaults
- 3493--Steel Springs
- 3494--Valves and Pipe Fittings, Except Plumbers' Brass Goods
- 3496--Collapsible Tubes
- 3497--Metal Foil and Leaf
- 3498--Fabricated Pipe and Fabricated Pipe Fittings
- 3499--Fabricated Metal Products, N.E.C.

### 3481--Miscellaneous Fabricated Wire Products

This industry comprises establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire. Rolling mills engaged in manufacturing wire products are classified in Major Group 33; establishments manufacturing nonferrous wire nails and spikes in Industry 3399; those drawing and insulating nonferrous wire in Industry 3357; and those assembling wire bedsprings or seats are classified in Major Group 25. For a detailed list of products of Industry 3481, refer to table 6A, product codes 3481111 to 3481998.

While the identifying code number for this industry has been changed from the code number used in the previous classification system, the content of the industry both under the previous and 1957 edition of the Standard Industrial Classification Manual is virtually unchanged.

Value of shipments and other receipts of the Fabricated Wire Products, N.E.C., Industry in 1958 totaled \$875 million. This included shipments of fabricated wire products (primary products) valued at \$745 million, shipments of other products (secondary products) valued at \$70 million, and miscellaneous receipts (mainly resales) of \$61 million.

This industry's shipments of fabricated wire products (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 89 percent. Secondary products shipped by this industry in 1958 included metal stampings, \$9 million, and steel springs, \$14 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 31 percent of the total industry shipments are represented by plants specializing in "other fabricated wire products;" 21 percent in "other wire springs;" and 16 percent in wire cloth and other woven wire products.

Industry 3481 shipments of fabricated wire products (primary products) in 1958 represented 64 percent (cov-

erage ratio) of these products valued at \$1,164 million shipped by all industries. In 1954, the coverage ratio was 66 percent. Other industries shipping fabricated wire products consisted mainly of Industry 3312, Blast Furnaces and Steel Mills, \$182 million, and Industry 3315, Steel Wire Drawing, 137 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of Industry 3481, e.g., Noninsulated ferrous wire rope, etc., 40 percent; Precision mechanical springs, 85 percent; Other wire springs, 86 percent; Fencing and fence gates, 46 percent.

### 3491--Metal Shipping Barrels, Drums, Kegs, and Pails

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous shipping barrels, drums, kegs, and pails. For a detailed list of products of Industry 3491, refer to table 6A, product codes 3491111 to 3491331.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A. Fluid milk shipping containers, formerly classified in Industry 3411, Metal Cans, are now included in Industry 3491, Metal Barrels, Drums, and Pails.

Value of shipments and other receipts of the Metal Barrels, Drums, and Pails Industry in 1958 totaled \$250 million. This included shipments of metal shipping barrels, drums, kegs, and pails (primary products) valued at \$222 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales) of \$9 million.

This industry's shipments of metal shipping barrels, drums, kegs, and pails (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included miscellaneous stamped and pressed metal end products, \$8 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 75 percent of the total industry shipments are represented by plants specializing in steel shipping barrels and drums.

Industry 3491 shipments of metal barrels, drums, kegs, and pails (primary products) in 1958 represented 86 percent (coverage ratio) of these products valued at \$259 million shipped by all industries. Other industries shipping metal barrels, drums, kegs, and pails (primary products) included Industry 3411, Metal Cans, \$11 million; and Industry 3461, Metal Stampings, \$3 million.



3492--Safes and Vaults

This industry comprises establishments primarily engaged in manufacturing fire or burglary resistive steel safes and vaults (except concrete grave vaults, Industry 3272, and metal grave vaults, Industry 3988), and similar fire or burglary resistive products. For a detailed list of products of Industry 3492, refer to table 6A, product codes 3492013 to 3492098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Safes and Vaults Industry in 1958 totaled \$59 million. This included shipments of safes and vaults (primary products) valued at \$44 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts of \$5 million.

This industry's shipments of safes and vaults (primary products) in 1958 represented 8.2 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent.

Industry 3492 shipments of safes and vaults (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$45 million shipped by all industries. In 1954, the coverage ratio was 97 percent.

3493--Steel Springs

This industry comprises establishments primarily engaged in manufacturing leaf springs, hot wound springs and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in Industry 3481, and rolling mills manufacturing steel springs in Industry 3312. For a detailed list of products of Industry 3493, refer to table 6A, product codes 3493011 to 3493098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Steel Springs Industry in 1958 totaled \$120 million. This included shipments of steel springs (primary products) valued at \$91 million, shipments of other products (secondary products) valued at \$22 million, and miscellaneous receipts (mainly resales) of \$7 million.

This industry's shipments of steel springs (primary products) in 1958 represented 81 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 84 percent. Secondary products shipped by this industry in 1958 included precision mechanical springs, \$8 million.

Industry 3493 shipments of steel springs (primary products) in 1958 represented 69 percent (coverage ratio) of these products valued at \$133 million shipped by all industries. In 1954, the coverage ratio was 74 percent.

3494--Valves and Pipe Fittings, Except Plumbers' Brass Goods

This industry comprises establishments primarily engaged in manufacturing valves for controlling the flow of liquids or gases in pipes and mains, and for machinery.

Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in Industry 3432. For a detailed list of products of Industry 3494, refer to table 6A, product codes 3494111 to 3494498.

While the identifying code number for this industry has been changed from the code number used in the previous classification system, the content of the industry both under the previous and 1957 edition of the Standard Industrial Classification Manual is unchanged.

Value of shipments and other receipts of the Valves and Pipe Fittings Industry in 1958 totaled \$1,242 million. This included shipments of valves and pipe fittings (primary products) valued at \$1,040 million, shipments of other products (secondary products) valued at \$132 million, and miscellaneous receipts (mainly resales) of \$70 million.

This industry's shipments of valves and pipe fittings (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 85 percent. Secondary products shipped by this industry in 1958 included plumbing fixture fittings and trim, \$15 million; and industrial process instruments, \$12 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 49 percent of the total industry shipments are represented by plants specializing in metal valves for piping systems; and 31 percent in metal fittings and unions for piping systems.

Industry 3494 shipments of valves and pipe fittings in 1958 represented 88 percent (coverage ratio) of these products valued at \$1,183 million shipped by all industries. In 1954, the coverage ratio was 86 percent. Other industries shipping valves and pipe fittings included Industry 3433, Nonelectric Heating Equipment, \$9 million; Industry 3511, Steam Engines and Turbines, \$6 million; Industry 3533, Oil Field Machines and Equipment, \$7 million; Industry 3561, Pumps and Compressors, \$17 million; and Industry 3821, Mechanical Measuring Devices, \$11 million.

3496--Collapsible Tubes

This industry comprises establishments primarily engaged in manufacturing collapsible tubes defined as cylindrical containers for viscous products, made of thin flexible metal, usually of tin, tin lined lead, lead, lead-tin alloy, or aluminum, with integral shoulder and neck, provided with an appropriate size opening in the throat, and usually with a screw cap made of plastic material for closure over the neck. For a detailed list of products of Industry 3496, refer to table 6A, product codes 3496011 to 3496029.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Collapsible Tubes Industry in 1958 totaled \$45 million. This included shipments of collapsible tubes (primary products) valued at \$37 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly resales) of \$4 million.



This industry's shipments of collapsible tubes (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent. Secondary products shipped by this industry in 1958 consisted mainly of fabricated plastic products, n.e.c., \$2 million.

Industry 3496 shipments of collapsible tubes (primary products) in 1958 represented 100 percent (coverage ratio) of these products valued at \$37 million shipped by all industries. In 1954, the coverage ratio was 100 percent.

#### 3497—Metal Foil and Leaf

This industry comprises establishments primarily engaged in manufacturing gold, silver, tin and other metal foil (including converted metal foil) and leaf. Establishments primarily engaged in manufacturing plain aluminum foil are classified in Industry 3352. For a detailed list of products of Industry 3497, refer to table 6A, product codes 3497021 to 3497057.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

This industry previously included establishments producing plain aluminum foil (foil mills). Such establishments are now included in Industry 3352, Aluminum Rolling and Drawing.

Value of shipments and other receipts of the Metal Foil and Leaf Industry in 1958 totaled \$89 million. This included shipments of metal foil and leaf (primary products) valued at \$70 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts (mainly sale of scrap) of \$4 million.

This industry's shipments of metal foil and leaf (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of miscellaneous gravure printing, \$8 million; and specialty bags and liners, \$2 million.

Industry 3497 shipments of metal foil and leaf (primary products) in 1958 represented 50 percent (coverage ratio) of these products valued at \$139 million shipped by all industries. Other industries shipping metal foil and leaf (primary products) consisted mainly of Industry 2641, Paper Coating and Glazing, \$11 million; Industry 2643, Bags, Except Textile Bags, \$6 million; Industry 2751, Printing: Letterpress, \$11 million; and Industry 3352, Aluminum Rolling and Drawing, \$38 million.

#### 3498—Fabricated Pipe and Fabricated Pipe Fittings

This industry comprises establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe, by cutting, threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in Industry 3321; welded and heavy riveted pipe in Industry 3317; and seamless steel pipe in Industry 3317.

While the identifying code number for this industry has been changed from the code number used in the previous

classification system, the content of the industry both under the previous and 1957 edition of the Standard Industrial Classification Manual is unchanged.

Value of shipments and other receipts of the Fabricated Pipe and Fittings Industry in 1958 totaled \$330 million. This included shipments of fabricated pipe and fittings (primary products) valued at \$247 million, shipments of other products (secondary products) valued at \$30 million, and miscellaneous receipts (mainly resales) of \$53 million.

This industry's shipments of fabricated pipe and fittings (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent. Secondary products shipped by this industry in 1958 included general industrial machinery, n.e.c., \$5 million.

Industry 3498 shipments of fabricated pipe and fittings (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$265 million shipped by all industries. In 1954, the coverage ratio was 88 percent.

#### 3499—Fabricated Metal Products, N.E.C.

This industry comprises establishments primarily engaged in manufacturing fabricated metal products, n.e.c. Establishments primarily engaged in manufacturing advertising novelties are classified in Industry 3993. Specific products of this industry include ammunition boxes, metal strapping, aluminum giftware (hammered), metal bookends, ladders, and fabricated railroad track equipment, such as switches, crossings, etc. Establishments primarily engaged in manufacturing castings or forgings are classified in Major Group 33, Primary Metal Industries: hardware in Industry 3429, Hardware; metal stampings in Industry 3461, Metal Stampings; machine and equipment parts in Major Group 35, Machinery, Except Electrical, and Major Group 36, Electrical Machinery, Equipment and Supplies.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Fabricated Metal Products, N.E.C., Industry in 1958 totaled \$340 million. This included shipments of fabricated metal products, n.e.c. (primary products) valued at \$273 million, shipments of other products (secondary products) valued at \$38 million, and miscellaneous receipts (mainly resales) of \$28 million.

This industry's shipments of fabricated metal products, n.e.c. (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 85 percent.

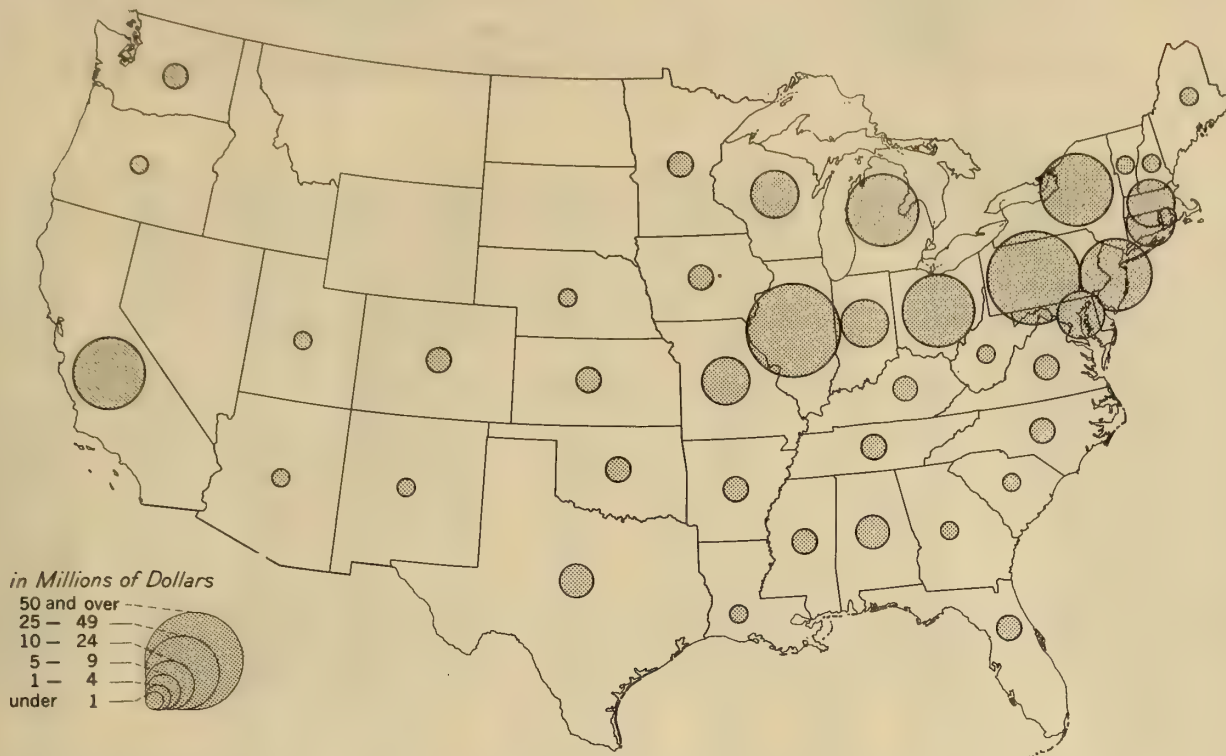
Industry 3499 shipments of fabricated metal products, n.e.c. (primary products) in 1958 represented 62 percent (coverage ratio) of these products valued at \$444 million shipped by all industries. In 1954, the coverage ratio was 53 percent. Other industries shipping fabricated metal products, n.e.c. (primary products) included Industry 3312, Blast Furnaces and Steel Mills, \$68 million; Industry 3429, Hardware, N.E.C., \$9 million; and Industry 3443, Boiler Shop Products, \$6 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



**MISCELLANEOUS FABRICATED WIRE PRODUCTS: SIC 348**

Value Added by Manufacture by State: 1958

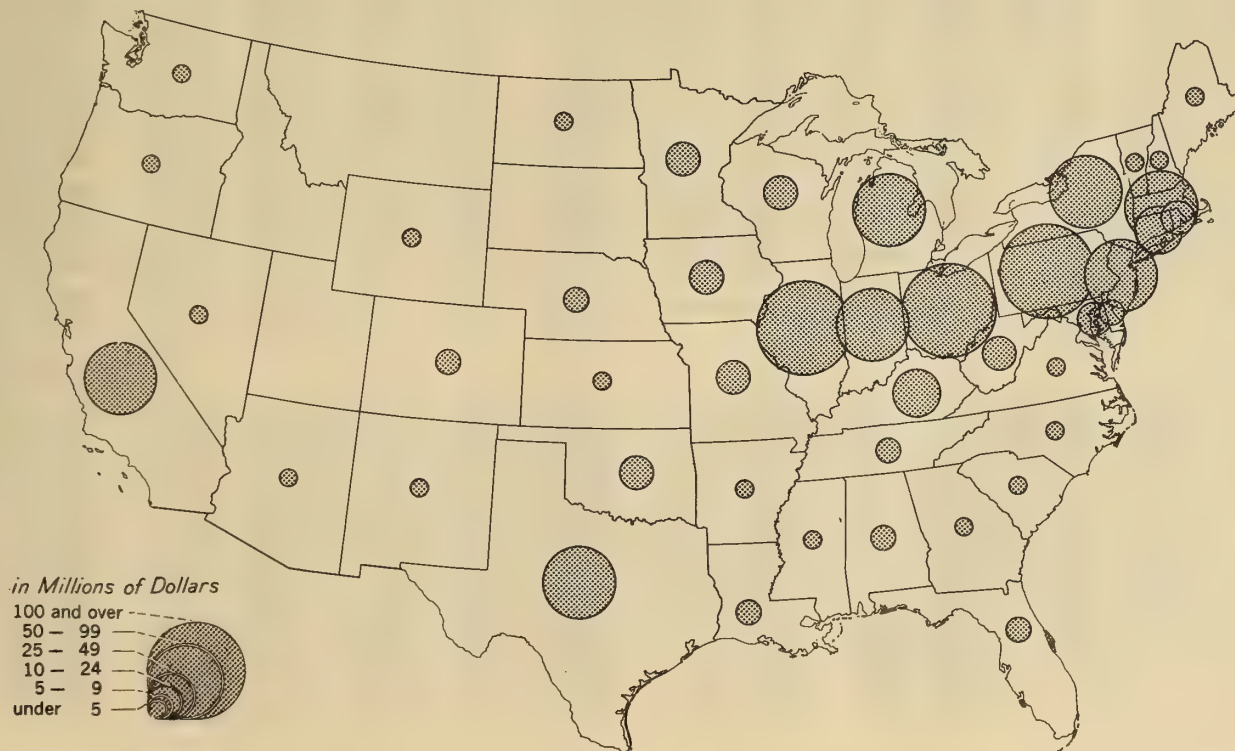


Includes only Industry 3481. See Table 2.

Bureau of the Census M-58-D348

**MISCELLANEOUS FABRICATED METAL PRODUCTS: SIC 349**

Value Added by Manufacture by State: 1958



Includes Industries 3491, 3492, 3493, 3494, 3496, 3497, 3498 and 3499. See Table 2.

Bureau of the Census M-58-D349

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3481 (old SIC 3489)	Fabricated wire products, nec:														
	1958.....	1,371	1,463	538	55,476	261,027	44,125	86,278	184,432	439,940	425,981	874,923	18,105	91	64
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	62,313	286,158	50,604	98,389	208,300	503,679	442,910	939,980	23,815	89	68
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	63,397	284,801	52,448	105,120	209,891	505,726	434,205	928,656	17,655	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	63,948	276,411	54,040	108,048	209,013	484,084	405,995	879,942	(S)	(NA)	(NA)
	1954.....	1,205	1,275	498	59,929	243,904	50,067	99,329	181,835	413,310	352,480	768,709	17,503	89	63
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	65,907	268,627	55,619	112,820	208,208	450,277	390,879	841,156	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	64,108	247,261	53,983	106,773	185,892	401,457	325,531	726,988	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	65,426	241,277	55,178	111,372	184,354	416,314	351,699	768,013	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	65,048	216,199	56,295	112,901	169,476	372,096	305,767	677,863	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	55,281	175,483	46,626	96,500	137,412	273,994	220,065	496,885	(NA)	(NA)	(NA)
	1947.....	853	911	(NA)	56,973	161,759	49,371	100,490	128,736	266,966	199,007	465,973	15,540	91	60
	1939.....	(NA)	669	(NA)	35,916	49,067	30,386	(NA)	35,539	83,865	74,952	158,817	(NA)	(NA)	(NA)
	1937.....	(NA)	563	(NA)	37,880	50,569	33,471	(NA)	39,207	86,214	78,296	164,510	(NA)	(NA)	(NA)
	1935.....	(NA)	536	(NA)	28,797	33,811	25,165	(NA)	25,426	61,585	55,984	117,569	(NA)	(NA)	(NA)
	1933.....	(NA)	429	(NA)	20,270	18,433	17,633	(NA)	14,155	39,300	35,220	74,520	(NA)	(NA)	(NA)
	1931.....	(NA)	494	(NA)	(NA)	(NA)	17,226	(NA)	17,386	46,386	40,308	86,694	(NA)	(NA)	(NA)
	1929.....	(NA)	547	(NA)	25,609	37,501	22,388	(NA)	27,912	78,661	68,144	146,805	(NA)	(NA)	(NA)
	1927.....	(NA)	512	(NA)	25,174	35,875	21,697	(NA)	26,439	65,443	63,093	128,536	(NA)	(NA)	(NA)
	1925.....	(NA)	462	(NA)	22,406	31,835	19,268	(NA)	23,835	55,825	59,604	115,429	(NA)	(NA)	(NA)
	1923.....	(NA)	462	(NA)	19,307	25,574	16,783	(NA)	19,341	47,968	52,280	100,248	(NA)	(NA)	(NA)
	1921.....	(NA)	413	(NA)	13,695	18,462	11,485	(NA)	13,314	29,346	37,039	66,385	(NA)	(NA)	(NA)
	1919.....	(NA)	558	(NA)	17,883	21,585	15,224	(NA)	15,506	39,795	50,754	90,549	(NA)	(NA)	(NA)
	1914.....	(NA)	552	(NA)	14,196	9,593	12,126	(NA)	6,719	17,675	24,114	41,789	(NA)	(NA)	(NA)
	1909.....	(NA)	611	(NA)	14,510	9,005	12,348	(NA)	6,331	17,544	24,394	41,938	(NA)	(NA)	(NA)
	1904.....	(NA)	649	(NA)	15,315	8,217	13,379	(NA)	6,100	15,182	17,856	33,038	(NA)	(NA)	(NA)
	1899.....	(NA)	596	(NA)	10,137	4,834	9,142	(NA)	3,894	9,027	10,813	19,840	(NA)	(NA)	(NA)
3491 (old SIC 3491)	Metal barrels, drums and pails:														
	1958 (new).....	78	125	74	9,640	53,005	7,657	15,058	38,065	94,548	154,738	250,256	4,583	92	86
	1958 (old) <sup>9</sup> .....	(NA)	121	70	9,055	50,427	7,239	14,246	36,352	91,230	150,911	242,574	4,416	92	86
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,420	56,727	8,437	17,447	42,692	104,053	175,630	278,925	5,433	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,547	55,249	8,724	18,570	42,414	102,020	168,667	269,567	7,841	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,657	52,342	8,832	18,919	40,490	95,616	156,489	253,450	7,786	(NA)	(NA)
	1954.....	51	93	63	10,585	48,501	8,687	17,924	37,058	85,667	137,670	224,920	5,860	82	86
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,027	45,596	8,353	17,037	34,885	76,687	126,573	203,260	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,773	39,687	8,278	16,729	30,807	78,159	113,317	191,476	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,181	41,786	9,636	19,649	33,625	98,838	147,356	246,194	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,329	30,713	8,305	15,965	24,706	72,831	110,218	183,049	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,574	27,555	7,347	13,504	21,183	66,127	90,060	156,187	(NA)	(NA)	(NA)
	1947.....	47	71	53	10,927	31,368	9,341	18,483	24,955	64,186	109,086	173,272	3,607	83	83
	1939.....	(NA)	64	(NA)	6,964	9,545	6,072	(NA)	7,360	16,838	32,328	49,166	(NA)	(NA)	(NA)
	1937.....	(NA)	58	(NA)	7,051	9,159	6,231	(NA)	7,357	17,879	30,296	48,175	(NA)	(NA)	(NA)
	1935.....	(NA)	64	(NA)	6,481	7,624	5,761	(NA)	5,839	13,560	21,090	34,650	(NA)	(NA)	(NA)
	1933.....	(NA)	58	(NA)	7,015	6,959	6,517	(NA)	6,026	12,364	18,035	30,399	(NA)	(NA)	(NA)
	1931.....	(NA)	52	(NA)	(NA)	(NA)	3,253	(NA)	3,513	8,654	12,990	21,644	(NA)	(NA)	(NA)
	1929.....	(NA)	53	(NA)	4,666	7,665	4,110	(NA)	5,769	15,878	21,947	37,825	(NA)	(NA)	(NA)
	1927.....	(NA)	39	(NA)	3,344	5,390	2,853	(NA)	3,986	9,369	14,736	24,105	(NA)	(NA)	(NA)
	1925.....	(NA)	33	(NA)	2,286	3,866	2,021	(NA)	2,914	7,185	12,743	19,928	(NA)	(NA)	(NA)
	1923.....	(NA)	39	(NA)	3,145	4,912	2,668	(NA)	3,363	8,431	14,818	23,249	(NA)	(NA)	(NA)
	1921.....	(NA)	31	(NA)	2,445	3,525	2,013	(NA)	2,323	5,258	9,267	14,525	(NA)	(NA)	(NA)
	1919 <sup>10</sup> .....	(NA)	33	(NA)	3,956	5,899	3,322	(NA)	4,435	9,792	15,151	24,943	(NA)	(NA)	(NA)
3492 (old SIC 3492)	Safes and vaults:														
	1958.....	31	33	12	3,495	15,843	2,323	4,417	10,722	39,537	18,514	58,790	683	78	97
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,548	14,869	2,402	4,492	10,054	38,141	15,225	51,858	627	86	97
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,072	14,037	2,295	4,629	9,787	35,604	15,213	50,566	622	(NA)	(NA)
	1954.....	25	26	10	3,442	15,030	2,581	5,050	10,341	29,583	12,398	41,758	714	87	97
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,752	14,985	2,796	(NA)	10,754	29,211	11,276	40,487	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,773	14,120	2,961	(NA)	10,790	28,695	13,976	42,671	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,166	13,800	2,648	(NA)	7,848	21,154	12,405	33,559	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,048	9,511	2,286	(NA)	6,263	17,450	8,379	25,829	(NA)	(NA)	(NA)
	1947.....	26	26	(NA)	3,754	10,117	3,004	6,035	7,437	19,434	9,782	29,216	580	98	98
	1939.....	(NA)	16	(NA)	1,558	2,286	1,236	(NA)	1,589	3,671	2,413	6,084	(NA)	(NA)	(NA)
	1937.....	(NA)	14	(NA)	1,359	1,951	1,132	(NA)	1,445	3,151	1,998	5,149	(NA)	(NA)	(NA)
	1935.....	(NA)	14	(NA)	1,060	1,280	809	(NA)	800	2,047	1,266	3,313	(NA)	(NA)	(NA)
	1933.....	(NA)	21	(NA)	1,208	1,058	933	(NA)	643	1,980	938	2,918	(NA)	(NA)	(NA)
	1931.....	(NA)	25	(NA)	(NA)	(NA)	2,044	(NA)	2,176	7,534	4,073	11,607	(NA)	(NA)	(NA)
	1929.....	(NA)	27	(NA)	3,782	6,442	3,033	(NA)	4,439	12,970	6,392	19,362	(NA)	(NA)	(NA)
	1927 <sup>10</sup> .....	(NA)	25	(NA)	3,936	5,796	3,386	(NA)	4,494	11,214	7,226	18,440	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Speci- aliza- tion <sup>6</sup> ratio (per- cent)	Cov- er- age <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3493 (old SIC 3493)	Steel springs:														
	1958.....	84	90	43	6,758	35,607	5,242	9,978	25,499	54,135	65,639	120,525	1,721	81	69
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,194	51,289	7,436	15,341	38,740	80,175	124,146	200,253	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,005	48,950	7,327	15,268	37,497	79,036	118,564	194,749	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,759	50,309	8,108	17,470	39,944	79,914	120,925	198,543	(S)	(NA)	(NA)
	1954.....	89	101	43	7,078	33,304	5,650	11,429	24,510	50,768	70,853	122,928	36,127	84	74
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,120	38,569	6,755	(NA)	29,371	62,949	75,775	138,724	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,377	33,069	6,195	(NA)	25,337	54,406	65,535	119,941	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,968	32,629	6,880	(NA)	25,646	55,858	72,248	128,106	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,179	27,555	5,813	(NA)	20,455	46,362	59,246	105,608	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,158	25,289	5,794	(NA)	19,245	45,354	46,287	91,641	(NA)	(NA)	(NA)
	1947.....	68	81	(NA)	7,760	24,938	6,747	14,135	20,233	45,876	46,770	92,646	2,285	89	68
	1939.....	(NA)	53	(NA)	3,591	5,739	2,940	(NA)	4,277	10,249	12,795	23,044	(NA)	(NA)	(NA)
	1937.....	(NA)	57	(NA)	4,412	7,151	3,902	(NA)	5,804	11,080	16,153	27,233	(NA)	(NA)	(NA)
	1935.....	(NA)	49	(NA)	3,595	4,609	3,146	(NA)	3,566	7,184	11,049	18,233	(NA)	(NA)	(NA)
	1933.....	(NA)	60	(NA)	2,508	2,581	2,112	(NA)	1,972	4,870	5,543	10,413	(NA)	(NA)	(NA)
	1931 <sup>10</sup> .....	(NA)	77	(NA)	(NA)	(NA)	2,561	(NA)	3,101	6,247	6,367	12,614	(NA)	(NA)	(NA)
3494 (old SIC 3591)	Valves and pipe fittings:														
	1958.....	549	588	345	74,994	400,331	54,371	106,186	262,395	716,056	506,443	1,241,535	32,748	89	88
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	80,035	419,524	60,203	121,247	282,034	814,214	614,715	1,414,042	(S)	87	90
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	78,644	406,194	62,188	126,282	283,746	800,026	614,723	1,356,185	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	74,485	355,531	57,929	119,148	250,762	665,292	500,416	1,126,802	(S)	(NA)	(NA)
	1954.....	523	556	314	75,016	333,213	58,425	115,312	235,730	579,006	416,111	989,463	24,869	85	86
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	78,954	348,685	61,658	127,484	252,872	604,376	406,757	1,011,133	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	80,068	348,347	63,695	131,294	253,237	614,183	389,375	1,003,558	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	81,621	344,441	66,045	139,629	254,000	617,228	399,311	1,016,539	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	70,284	261,964	56,786	115,823	188,669	456,915	288,501	745,416	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	64,246	219,245	50,941	99,992	153,424	384,740	204,115	588,855	(NA)	(NA)	(NA)
	1947.....	436	452	(NA)	79,713	237,921	65,522	132,012	183,763	392,090	241,681	633,771	20,877	82	90
	1939 <sup>10</sup> .....	(NA)	298	(NA)	(NA)	(NA)	32,159	(NA)	43,936	107,511	57,416	164,927	(NA)	(NA)	(NA)
3496 (old SIC 3496)	Collapsible tubes:														
	1958.....	18	22	20	3,837	16,118	3,367	6,852	12,453	25,257	19,183	44,700	1,572	91	100
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,673	14,926	3,261	6,467	11,478	23,667	15,710	39,379	1,082	89	100
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,313	16,399	3,872	7,704	12,936	26,022	16,936	43,014	1,050	(NA)	(NA)
	1954.....	19	21	18	4,302	14,934	3,856	7,643	11,783	22,429	15,707	38,067	1,369	93	100
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,082	13,360	3,679	7,114	10,902	20,533	13,877	34,410	(NA)	(NA)	(NA)
	1947.....	19	19	(NA)	3,866	9,415	3,475	6,886	7,205	16,942	10,055	26,997	1,477	91	100
	1939.....	(NA)	14	(NA)	2,195	2,695	1,933	(NA)	1,903	4,536	4,936	9,472	(NA)	(NA)	(NA)
	1937.....	(NA)	15	(NA)	2,164	2,437	1,983	(NA)	1,872	3,913	5,272	9,185	(NA)	(NA)	(NA)
	1935.....	(NA)	16	(NA)	2,138	2,306	1,961	(NA)	1,750	3,539	4,966	8,505	(NA)	(NA)	(NA)
	1933.....	(NA)	17	(NA)	1,881	1,735	1,750	(NA)	1,482	3,090	3,834	6,924	(NA)	(NA)	(NA)
	1931.....	(NA)	17	(NA)	(NA)	(NA)	1,737	(NA)	1,634	3,492	4,142	7,634	(NA)	(NA)	(NA)
	1929.....	(NA)	17	(NA)	1,968	2,429	1,821	(NA)	1,782	3,527	5,386	8,913	(NA)	(NA)	(NA)
	1927.....	(NA)	17	(NA)	2,169	2,568	1,984	(NA)	1,918	4,247	7,104	11,351	(NA)	(NA)	(NA)
	1925.....	(NA)	16	(NA)	(NA)	(NA)	1,948	(NA)	1,877	3,755	5,694	9,449	(NA)	(NA)	(NA)
	1923 <sup>10</sup> .....	(NA)	12	(NA)	1,413	1,448	1,297	(NA)	1,161	2,143	3,047	5,190	(NA)	(NA)	(NA)
3497	Metal foil and leaf:														
	1958 <sup>9</sup> .....	59	65	30	3,195	17,105	2,277	4,701	10,874	35,170	53,897	88,871	2,855	83	50
3498 (old SIC 3592)	Fabricated pipe and fittings:														
	1958.....	273	286	136	15,214	84,015	11,139	22,238	55,347	155,621	174,661	329,979	4,103	89	93
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,295	78,257	10,900	21,229	52,613	154,887	143,272	287,645	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,457	68,278	10,285	19,881	47,521	139,233	128,638	257,720	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,495	58,603	9,549	18,291	40,787	104,789	111,255	214,246	(S)	(NA)	(NA)
	1954.....	237	250	130	12,670	62,092	9,943	19,352	43,945	122,408	122,283	249,923	4,804	92	88
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,858	64,240	10,368	(NA)	46,801	111,522	98,489	210,011	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,793	62,580	8,974	(NA)	37,813	98,790	87,676	186,466	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,152	51,586	8,998	(NA)	34,538	91,855	88,901	180,756	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,514	38,304	8,236	(NA)	26,795	84,303	74,023	158,326	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,867	37,745	7,427	(NA)	21,868	80,982	61,412	142,394	(NA)	(NA)	(NA)
	1947.....	206	212	(NA)	10,568	33,362	8,273	16,781	23,172	58,786	57,190	115,976	4,084	82	83
	1939 <sup>10</sup> .....	(NA)	112	(NA)	(NA)	(NA)	2,792	(NA)	3,737	10,842	12,172	23,014	(NA)	(NA)	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1-General Statistics for the United States: 1958 and Earlier Years-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3499 (old SIC 3499)	Fabricated metal products, nec:														
	1958.....	962	974	213	20,200	93,199	15,600	29,845	62,747	180,132	160,374	340,096	11,362	88	62
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,087	82,869	15,236	29,002	58,022	169,812	151,655	314,705	8,220	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,683	80,586	15,775	29,841	56,070	165,598	149,018	306,420	10,830	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,277	80,107	16,542	32,243	56,562	158,348	134,687	282,802	(S)	(NA)	(NA)
	1954.....	1,017	1,026	183	18,069	68,191	14,556	28,228	47,982	130,687	120,894	254,081	8,088	85	53
	1947.....	430	438	(NA)	7,633	21,190	6,377	13,288	15,759	39,967	33,238	73,205	2,028	90	60
	1939 <sup>10</sup> .....	(NA)	104	(NA)	(NA)	(NA)	5,097	(NA)	6,802	19,328	13,085	32,413	(NA)	(NA)	(NA)

NA Not available.

<sup>8</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3481	412,368	3496	22,239
3491	85,865	3497	(NA)
3492	28,974	3498	123,028
3493	50,152	3499	129,464
3494	567,518		

<sup>4</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3481	394,954	332,397	3496	15,933	14,654
3491	149,202	131,374	3497	52,942	(NA)
3492	16,464	11,054	3498	150,890	102,871
3493	61,652	65,540	3499	147,310	108,352
3494	470,322	391,493			

<sup>5</sup> For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3481	837,288	744,766	3496	41,424	36,893
3491	244,000	217,239	3497	87,778	(NA)
3492	56,312	40,029	3498	297,671	225,902
3493	114,768	115,692	3499	322,588	237,815
3494	1,195,515	959,012			

<sup>6</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup> The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup> The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup> A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>10</sup> No separate figures available for prior years.



Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3491—Metal barrels, drums and pails.....	125	74	9,640	94,548	xxx	xxx	xxx	xxx
Old Industry 3411—Tin cans and other tinware.....	4	4	585	3,318	(2)	(2)	(2)	(2)
Old Industry 3491—Metal barrels, drums and pails.....	121	70	9,055	91,230	121	70	9,055	<sup>r</sup> 91,230
New Industry 3497—Metal foil and leaf.....	65	30	3,195	35,170	xxx	xxx	xxx	xxx
Old Industry 3497—Metal foil and leaf.....	65	30	3,195	35,170	82	47	<sup>r</sup> 7,699	<sup>r</sup> 96,925

<sup>1</sup>Includes revisions from preliminary totals.

<sup>2</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

<sup>r</sup>Revised.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3481	Fabricated wire products, nec, total.....	1,463	538	55,476	261,027	44,125	86,278	184,432	439,940	874,923	18,105	59,929	412,368	56,973
	New England.....	136	56	4,972	22,858	3,976	8,105	15,981	25,652	65,188	1,546	7,160	44,845	5,810
	Massachusetts....	53	26	2,219	10,198	1,761	3,547	7,434	15,233	31,288	783	2,277	14,488	2,264
	Rhode Island.....	11	2	138	545	117	242	380	832	1,724	(2)	(3)	(3)	(3)
	Connecticut.....	68	28	2,603	12,088	2,087	4,297	8,142	19,509	32,033	719	(3)	(3)	(3)
	Middle Atlantic...	405	125	14,271	65,514	11,363	22,367	47,194	117,298	227,101	4,655	15,814	109,730	14,430
	New York.....	219	59	4,943	20,750	3,968	7,893	14,739	34,641	63,230	1,445	5,729	35,099	4,585
	New Jersey.....	66	18	2,662	13,582	2,064	4,151	9,503	25,822	50,013	1,228	(3)	(3)	(3)
	Pennsylvania....	120	48	6,666	31,182	5,331	10,323	22,952	56,835	113,858	1,982	(3)	(3)	(3)
	East North Central	420	189	22,373	112,962	17,652	34,257	79,648	175,216	330,410	6,815	23,815	162,084	26,990
	Ohio.....	88	39	4,412	22,618	3,276	6,282	15,197	39,410	70,346	1,771	4,740	34,355	2,909
	Indiana.....	51	27	2,666	11,846	2,179	4,237	8,720	19,950	40,303	1,341	(3)	(3)	(3)
	Illinois.....	154	60	7,456	37,646	6,092	12,002	27,816	57,858	108,695	1,936	8,416	56,488	8,697
	Michigan.....	100	51	6,777	34,643	5,230	9,920	23,491	46,681	92,682	1,305	(3)	(3)	(3)
	Wisconsin.....	27	12	1,062	6,209	875	1,816	4,424	11,317	18,384	(2)	515	3,118	495
	West North Central	98	34	3,177	15,409	2,559	5,126	10,166	27,910	54,974	760	3,491	24,208	3,128
	Minnesota.....	23	6	464	2,134	404	805	1,627	3,668	6,667	(2)	310	1,760	357
	Iowa.....	12	4	439	1,780	379	717	1,336	2,415	6,791	(2)	456	2,412	180
	Missouri.....	46	19	1,922	10,034	1,472	2,998	6,156	19,016	35,614	(2)	2,445	18,700	2,503
	Kansas.....	12	4	283	1,174	246	475	858	2,412	4,763	(2)	247	1,198	57
	South Atlantic....	67	22	2,608	8,929	2,105	3,653	6,063	22,779	49,996	1,104	(3)	(3)	(3)
	Maryland.....	19	7	1,152	4,471	840	1,492	2,812	12,927	25,812	691	(3)	(3)	(3)
	North Carolina..	13	7	856	2,382	788	1,252	1,763	4,294	11,559	(2)	546	2,526	271
	Florida.....	20	4	230	874	187	378	675	2,443	6,534	(2)	(3)	(3)	(3)
	East South Central	40	23	1,616	5,386	1,394	2,788	4,015	10,872	24,291	1,009	(3)	(3)	(3)
	Kentucky.....	6	3	351	1,420	283	578	972	2,182	4,587	(2)	458	2,629	70
	Tennessee.....	16	9	708	1,994	620	1,189	1,564	3,372	7,718	(2)	589	2,917	504
	Alabama.....	12	6	272	1,188	236	510	848	3,730	7,997	500	(3)	(3)	(3)
	Mississippi.....	6	5	285	784	255	511	631	1,588	3,989	(2)	(3)	(3)	(3)
	West South Central	53	21	1,724	7,215	1,380	2,946	5,424	12,569	37,478	672	(3)	(3)	(3)
	Oklahoma.....	10	2	435	1,770	375	721	1,503	2,271	6,719	(2)	48	308	(D)
	Texas.....	35	14	978	4,280	752	1,733	3,115	8,220	26,275	500	(3)	(3)	(3)
	Mountain.....	16	4	196	846	146	269	641	1,517	3,756	(2)	135	796	63
	Colorado.....	9	2	126	604	90	170	444	1,076	2,525	(2)	101	572	63
	Pacific.....	228	64	4,539	21,908	3,550	6,767	15,300	36,132	81,729	1,449	4,161	28,736	3,546
	Washington.....	18	3	229	1,059	165	316	694	2,653	5,448	(2)	209	1,931	201
	Oregon.....	14	2	105	393	85	154	286	509	2,036	(2)	100	469	32
	California.....	196	59	4,205	20,456	3,300	6,297	14,320	32,970	74,245	1,272	3,852	26,336	3,313

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3491	Metal barrels, drums and pails, total.....	125	74	9,640	53,005	7,657	15,058	38,065	94,548	250,256	4,583	(4)	(4)	(4)
	New England.....	5	2	127	590	100	201	440	885	1,969	(2)	(4)	(4)	(4)
	Middle Atlantic....	28	20	2,785	14,530	2,213	4,232	10,441	26,094	71,858	1,584	(4)	(4)	(4)
	New York.....	8	4	372	1,831	324	676	1,480	2,903	8,341	(D)	(4)	(4)	(4)
	New Jersey.....	9	8	1,174	7,213	915	1,884	5,257	12,614	34,277	(D)	(4)	(4)	(4)
	Pennsylvania.....	11	8	1,239	5,486	974	1,672	3,704	10,577	29,240	(2)	(4)	(4)	(4)
	North Central.....	48	25	4,080	23,116	3,262	6,442	16,514	36,384	87,766	2,057	(4)	(4)	(4)
	Ohio.....	17	10	1,647	8,987	1,347	2,463	6,684	13,108	32,731	(2)	(4)	(4)	(4)
	Illinois.....	16	11	1,941	11,875	1,532	3,277	8,151	19,225	45,259	1,576	(4)	(4)	(4)
	South Atlantic....	11	7	270	1,138	247	502	933	2,967	8,421	(2)	(4)	(4)	(4)
	East South Central	8	5	354	1,631	273	583	1,130	3,713	9,534	(2)	(4)	(4)	(4)
	West South Central	13	10	1,122	6,507	885	1,773	4,732	15,062	46,922	(2)	(4)	(4)	(4)
	Texas.....	6	4	571	3,422	427	843	2,451	8,468	26,802	(2)	(4)	(4)	(4)
	West.....	12	5	902	5,493	677	1,325	3,875	9,443	23,786	(2)	(4)	(4)	(4)
	California.....	8	5	879	5,361	664	1,293	3,793	9,254	22,855	(2)	(4)	(4)	(4)
3492	Safes and vaults, total.....	33	12	3,495	15,843	2,323	4,417	10,722	39,537	58,790	683	3,442	28,974	3,754
	Northeast.....	10	1	208	922	171	396	697	1,709	3,517	(2)	(3)	(3)	(3)
	North Central.....	13	7	3,014	13,511	1,984	3,692	9,267	35,772	51,028	571	(3)	(3)	(3)
	Ohio.....	7	5	2,873	12,884	1,863	3,435	8,786	34,712	49,374	558	3,024	26,288	3,203
	South and West....	10	4	273	1,410	168	329	758	2,056	4,245	(2)	234	1,452	181
3493	Steel springs, total	90	43	6,758	35,607	5,242	9,978	25,499	54,135	120,525	1,721	7,078	50,152	7,760
	Middle Atlantic....	23	15	2,041	10,635	1,600	3,046	7,874	15,329	35,212	559	2,615	16,567	3,334
	New York.....	9	4	439	2,222	325	668	1,627	3,302	9,515	(2)	516	3,706	341
	East North Central	29	15	2,526	13,638	2,014	3,747	9,970	21,160	53,076	610	(3)	(3)	(3)
	Indiana.....	4	4	463	2,525	365	664	1,724	4,416	10,703	(2)	476	3,863	533
	Illinois.....	8	4	527	2,917	410	771	1,999	5,365	11,892	(2)	730	5,640	1,288
	Michigan.....	11	5	917	4,991	716	1,363	3,804	7,327	20,023	(2)	1,888	16,260	1,235
	Pacific.....	18	6	449	2,283	315	637	1,473	3,809	7,751	(2)	(3)	(3)	(3)
	California.....	14	3	376	1,924	267	547	1,252	3,197	6,580	(2)	307	1,488	406
	All other divisions.....	20	7	1,742	9,051	1,313	2,548	6,182	13,837	24,486	(2)	(3)	(3)	(3)
3494	Valves and pipe fittings, total....	588	345	74,994	400,331	54,371	106,186	262,395	716,056	1,241,535	32,748	75,016	567,518	79,713
	New England.....	54	32	9,594	45,778	6,815	13,320	29,721	76,600	128,169	3,437	8,861	61,037	8,556
	Massachusetts....	32	18	5,439	26,273	3,884	7,546	16,965	44,434	69,545	2,017	5,418	37,945	5,220
	Connecticut.....	12	6	2,811	12,743	1,923	3,685	8,287	19,506	35,098	938	1,925	13,070	1,448
	Middle Atlantic....	153	91	16,659	86,425	12,202	23,861	57,693	155,842	251,408	6,498	16,433	116,228	18,324
	New York.....	52	24	3,390	17,035	2,640	5,244	12,021	31,387	48,633	948	3,198	23,293	3,329
	New Jersey.....	46	25	3,357	18,901	2,145	4,225	10,499	32,897	53,492	2,017	2,316	16,984	2,126
	Pennsylvania.....	55	42	9,912	50,489	7,417	14,392	35,173	91,558	149,283	3,533	10,919	75,950	12,869
	East North Central	175	110	30,410	170,860	22,239	42,936	114,075	284,012	504,861	12,068	35,048	257,693	39,852
	Ohio.....	57	33	6,032	31,640	4,360	8,959	20,862	61,382	105,069	2,172	7,470	63,759	9,342
	Indiana.....	21	15	2,945	16,361	2,134	4,169	10,030	35,696	58,417	1,590	2,347	21,875	1,636
	Illinois.....	51	32	15,573	90,303	11,469	21,279	61,048	139,224	239,886	6,115	17,501	118,365	18,098
	West North Central	22	14	2,844	14,510	1,998	4,096	8,732	37,354	56,078	1,433	2,540	22,840	2,431
	Minnesota.....	5	2	326	1,708	241	480	1,001	4,259	6,674	(2)	(3)	(3)	(3)
	Iowa.....	6	5	1,644	8,459	1,114	2,323	4,998	21,635	33,570	711	1,568	15,318	1,194
	Missouri.....	7	4	600	3,230	419	786	1,890	5,715	8,954	(D)	640	5,185	871
	South Atlantic....	20	10	1,524	6,756	1,270	2,574	5,102	13,203	21,571	(2)	714	5,510	501
	East South Central	8	7	4,998	24,931	3,969	7,322	17,662	50,943	87,856	3,210	4,800	38,858	4,994
	Alabama.....	4	4	2,294	10,911	1,901	3,413	7,933	19,406	30,360	817	2,166	13,919	2,534
	West South Central	51	32	3,935	20,878	2,458	4,988	11,176	45,235	90,233	3,013	2,349	20,978	1,106
	Texas.....	35	23	3,034	16,077	1,843	3,701	8,144	35,417	75,113	2,501	1,549	14,345	676
	Mountain.....	6	3	515	3,156	253	490	1,364	5,368	13,737	(2)	48	339	(D)
	Pacific.....	99	46	4,515	27,037	3,167	6,599	16,870	47,499	87,622	2,601	4,218	44,032	(D)
	California.....	92	43	4,394	26,319	3,077	6,420	16,438	45,982	85,184	2,576	4,123	42,949	3,864
3496	Collapsible tubes, total.....	22	20	3,837	16,118	3,367	6,852	12,453	25,257	44,700	1,572	4,302	22,239	3,866
	Northeast.....	13	13	2,442	10,417	2,121	4,202	7,763	15,213	28,326	761	2,895	16,709	3,059
	New Jersey.....	9	9	1,481	6,752	1,276	2,553	4,936	10,303	20,747	580	1,661	10,167	1,500
	East North Central	5	3	300	1,017	259	490	791	2,027	3,321	(2)	(3)	(3)	(3)
	South and West....	4	4	1,095	4,684	987	2,160	3,899	8,017	13,053	746	(3)	(3)	(3)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3497	Metal foil and leaf, total.....	65	30	3,195	17,105	2,277	4,701	10,874	35,170	88,871	2,855	(4)	(4)	(4)
	Middle Atlantic.....	27	9	655	3,183	511	1,101	2,191	6,717	14,972	(2)	(4)	(4)	(4)
	East North Central.....	9	6	1,193	6,329	883	1,770	4,223	12,694	35,815	1,627	(4)	(4)	(4)
	Pacific.....	11	6	521	3,061	319	617	1,634	6,233	15,285	(2)	(4)	(4)	(4)
	All other divisions.....	18	9	826	4,532	564	1,213	2,826	9,526	22,799	(2)	(4)	(4)	(4)
3498	Fabricated pipe and fittings, total....	286	136	15,214	84,015	11,139	22,238	55,347	155,621	329,979	4,103	12,670	123,028	10,568
	New England.....	16	7	438	1,967	326	664	1,273	3,839	6,816	(2)	668	4,427	498
	Connecticut.....	7	3	204	959	139	290	592	1,353	2,630	(2)	320	2,217	266
	Middle Atlantic.....	80	37	4,824	27,606	3,277	6,411	16,412	63,304	121,532	1,052	4,121	49,505	3,326
	New York.....	21	8	671	2,923	579	1,174	2,105	6,862	13,174	(2)	470	2,942	296
	New Jersey.....	17	8	1,727	10,343	1,049	1,983	5,533	18,625	40,774	(2)	564	3,386	1,175
	Pennsylvania.....	42	21	2,426	14,340	1,649	3,254	8,774	37,817	67,581	588	3,087	43,176	1,855
	East North Central.....	82	45	5,308	27,725	4,286	8,642	20,526	48,851	103,495	1,154	(3)	(3)	(3)
	Ohio.....	29	17	3,582	19,021	2,941	5,796	14,576	39,995	70,051	661	2,110	21,307	1,677
	Indiana.....	5	4	271	1,208	233	495	927	1,986	4,318	(D)	212	1,765	(D)
	Illinois.....	19	10	627	3,201	474	1,050	2,026	5,155	13,344	(2)	615	3,933	1,380
	Michigan.....	21	11	683	3,648	527	1,082	2,560	429	12,195	(2)	(3)	(3)	(3)
	Wisconsin.....	8	3	145	647	111	219	437	1,286	3,587	(D)	(3)	(3)	(3)
	West North Central.....	16	8	1,295	7,151	901	1,798	4,465	13,392	24,864	(2)	(3)	(3)	(3)
	Missouri.....	9	4	955	5,354	666	1,302	3,320	10,790	18,659	(2)	766	7,364	594
	South.....	47	22	2,193	12,753	1,563	3,110	8,264	15,252	47,689	662	(3)	(3)	(3)
	Florida.....	4	2	121	578	76	174	345	642	2,495	(2)	(3)	(3)	(3)
	Texas.....	21	11	1,019	6,476	782	1,549	4,799	8,312	26,073	(2)	1,187	11,434	543
	West.....	45	17	1,156	6,813	786	1,613	4,407	10,983	25,583	885	(3)	(3)	(3)
	Oregon.....	4	3	141	813	88	189	509	1,656	4,178	(2)	(3)	(3)	(3)
	California.....	36	13	949	5,603	655	1,350	3,661	8,860	20,335	639	(3)	(3)	(3)
3499	Fabricated metal products, nec, total.....	974	213	20,200	93,199	15,600	29,845	62,747	180,132	340,096	11,362	18,069	129,464	7,633
	New England.....	75	17	1,812	8,345	1,312	2,471	4,905	13,844	22,466	548	980	5,416	629
	Massachusetts.....	37	7	866	4,149	619	1,232	2,431	7,878	12,226	(2)	467	2,561	186
	Connecticut.....	22	6	526	2,308	435	751	1,647	3,675	6,640	(2)	244	1,374	324
	Middle Atlantic.....	302	78	4,573	19,224	3,738	6,834	13,893	36,192	71,679	2,215	5,688	35,264	2,600
	New York.....	196	48	2,944	11,908	2,439	4,403	8,859	22,568	44,419	1,401	3,314	20,072	1,414
	New Jersey.....	49	12	639	2,756	488	887	1,869	4,774	9,973	(2)	887	6,717	493
	Pennsylvania.....	57	18	990	4,560	811	1,544	3,165	8,850	17,287	540	1,486	8,474	693
	East North Central.....	279	76	9,544	47,219	7,114	14,033	30,642	89,765	166,582	3,952	6,964	53,338	2,776
	Ohio.....	70	16	1,517	6,755	1,205	2,240	4,851	13,328	25,871	635	1,176	7,320	753
	Indiana.....	38	12	2,132	10,884	1,529	3,125	6,561	16,893	31,340	614	1,263	9,014	167
	Illinois.....	93	30	4,037	20,188	2,977	5,847	13,351	42,284	77,783	1,813	3,177	28,824	1,199
	West North Central.....	47	4	732	3,647	600	1,149	2,523	6,816	13,931	(2)	1,082	6,459	(D)
	South Atlantic.....	75	18	1,945	8,037	1,543	3,026	5,764	21,637	41,362	3,519	1,085	11,948	(D)
	Maryland.....	19	6	601	2,746	495	989	2,082	10,164	18,209	1,075	536	7,623	109
	North Carolina.....	8	4	118	362	103	197	306	554	1,318	(2)	(3)	(3)	(3)
	Florida.....	27	5	995	4,012	739	1,428	2,578	6,513	12,305	(2)	(3)	(3)	(3)
	East South Central.....	13	3	182	743	148	260	514	1,166	2,198	(2)	167	1,015	(D)
	West South Central.....	43	3	281	1,064	237	430	826	1,570	3,880	(2)	301	1,217	(D)
	Texas.....	24	2	162	592	136	253	475	1,066	2,467	(2)	258	1,042	64
	Mountain.....	14	2	117	554	90	153	384	1,048	2,153	(2)	170	1,523	(D)
	Pacific.....	126	12	1,014	4,366	818	1,489	3,296	8,094	15,845	(2)	1,629	13,281	(D)
	California.....	116	11	949	4,100	764	1,409	3,079	7,667	15,249	(2)	1,613	13,202	456

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3481, Fabricated Wire Products, NEC: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Vermont, 1 (1-19); South Atlantic—District of Columbia, 1 (1-19); Virginia, 5 (100-249); West Virginia, 2 (20-99); South Carolina, 1 (1-19); Georgia, 6 (20-99); West South Central—Arkansas, 3 (100-249); Louisiana, 5 (20-99); Mountain—New Mexico, 1 (1-19); Arizona, 4 (20-99); Utah, 2 (20-99).

SIC 3491, Metal Barrels, Drums and Pails: New England—Massachusetts, 4 (100-249); Connecticut, 1 (1-19); North Central—Indiana, 1 (20-99); Michigan, 4 (1-19); Wisconsin, 3 (20-99); Minnesota, 3 (100-249); Iowa, 1 (1-19); Missouri, 1 (1-19); Kansas, 2 (100-249); South Atlantic—Delaware, 2 (20-99); Maryland, 1 (20-99); West Virginia, 3 (20-99); North Carolina, 1 (1-19); Georgia, 2 (20-99); Florida, 2 (20-99); East South Central—Kentucky, 1 (20-99); Tennessee, 1 (1-19); Alabama, 5 (250-499); Mississippi, 1 (1-19); West South Central—Louisiana, 6 (500-999); Oklahoma, 1 (20-99); West—Colorado, 2 (1-19); Washington, 2 (1-19).

SIC 3492, Safes and Vaults: Northeast—Massachusetts, 1 (1-19); Connecticut, 2 (1-19); New York, 5 (20-99); Pennsylvania, 2 (100-249); North Central—Indiana, 2 (100-249); Illinois, 2 (1-19); Michigan, 1 (20-99); Missouri, 1 (1-19); South and West—Florida, 1 (1-19); Kentucky, 1 (100-249); California, 8 (100-249).

Footnotes for Table 2-34E

SIC 3493, Steel Springs: New England—Vermont, 1 (1-19); Massachusetts, 1 (1-19); Connecticut, 7 (1,291); Middle Atlantic—New Jersey, 2 (1-19); Pennsylvania, 12 (1,000-2,499); East North Central—Ohio, 6 (500-999); West North Central—Minnesota, 1 (1-19); Iowa, 1 (20-99); Missouri, 4 (250-499); South Atlantic—Maryland, 1 (1-19); North Carolina, 1 (1-19); East South Central—Tennessee, 1 (20-99); West South Central—Texas, 1 (1-19); Mountain—Colorado, 1 (20-99); Pacific—Washington, 3 (20-99); Oregon, 1 (20-99).

SIC 3494, Valves and Pipe Fittings: New England—Maine, 1 (20-99); Rhode Island, 9 (1,000-2,499); East North Central—Michigan, 38 (4,787); Wisconsin, 8 (1,073); West North Central—Nebraska, 2 (100-249); Kansas, 2 (20-99); South Atlantic—Delaware, 3 (250-499); Maryland, 2 (20-99); Virginia, 3 (250-499); West Virginia, 2 (250-499); North Carolina, 3 (100-249); Georgia, 3 (250-499); Florida, 4 (20-99); East South Central—Kentucky, 3 (1,000-2,499); Tennessee, 1 (500-999); West South Central—Arkansas, 2 (1-19); Louisiana, 1 (20-99); Oklahoma, 13 (500-999); Mountain—Colorado, 4 (500-999); Arizona, 2 (1-19); Pacific—Washington, 1 (1-19); Oregon, 6 (100-249).

SIC 3496, Collapsible Tubes: New England—Rhode Island, 1 (20-99); Connecticut, 1 (250-499); Middle Atlantic—Pennsylvania, 2 (250-499); East North Central—Indiana, 1 (20-99); Illinois, 2 (100-249); Michigan, 2 (20-99); South and West—West Virginia, 1 (250-499); Kentucky, 1 (20-99); Arkansas, 1 (250-499); California, 1 (100-249).

SIC 3497, Metal Foil and Leaf: New England—Vermont, 1 (1-19); Massachusetts, 3 (20-99); Connecticut, 3 (250-499); Middle Atlantic—New York, 16 (250-499); New Jersey, 10 (250-499); Pennsylvania, 1 (1-19); East North Central—Ohio, 3 (500-999); Indiana, 1 (100-249); Illinois, 5 (250-499); West North Central—Iowa, 1 (1-19); South Atlantic—Maryland, 1 (20-99); East South Central—Kentucky, 6 (250-499); West South Central—Texas, 2 (1-19); Pacific—Washington, 1 (1-19); California, 10 (500-999).

SIC 3498, Fabricated Pipe and Fittings: New England—Maine, 1 (20-99); Massachusetts, 7 (100-249); Rhode Island, 1 (20-99); West North Central—Minnesota, 1 (20-99); Iowa, 2 (1-19); Nebraska, 2 (20-99); Kansas, 2 (250-499); South—Delaware, 1 (250-499); Maryland, 1 (20-99); Virginia, 2 (1-19); West Virginia, 2 (250-499); North Carolina, 3 (100-249); Georgia, 1 (1-19); Kentucky, 1 (1-19); Tennessee, 2 (20-99); Alabama, 2 (20-99); West South Central—Louisiana, 4 (20-99); Oklahoma, 3 (20-99); West—Colorado, 1 (20-99); Washington, 4 (1-19).

SIC 3499, Fabricated Metal Products, NEC: New England—Maine, 1 (1-19); New Hampshire, 3 (20-99); Vermont, 1 (1-19); Rhode Island, 11 (250-499); East North Central—Michigan, 63 (1,591); Wisconsin, 15 (250-499); West North Central—Minnesota, 18 (500-999); Iowa, 7 (20-99); Missouri, 12 (20-99); North Dakota, 2 (1-19); Nebraska, 1 (1-19); Kansas, 7 (20-99); South Atlantic—Delaware, 1 (1-19); Virginia, 6 (100-249); West Virginia, 3 (20-99); South Carolina, 3 (1-19); Georgia, 8 (20-99); East South Central—Kentucky, 7 (20-99); Tennessee, 4 (20-99); Alabama, 2 (20-99); West South Central—Arkansas, 5 (20-99); Louisiana, 5 (20-99); Oklahoma, 9 (20-99); Mountain—Montana, 1 (1-19); Wyoming, 1 (1-19); Colorado, 5 (20-99); New Mexico, 1 (1-19); Arizona, 5 (1-19); Nevada, 1 (20-99); Pacific—Washington, 7 (20-99); Oregon, 3 (1-19).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).



Table 3.—Detailed Statistics for the United States: 1958

Item	Miscellaneous fabricated wire products (SIC 3481)	Metal barrels, drums and pails (SIC 3491)	Safes and vaults (SIC 3492)	Steel springs (SIC 3493)	Valves and pipe fittings (SIC 3494)	Collapsible tubes (SIC 3496)	Metal foil and leaf (SIC 3497)	Fabricated pipe and fittings (SIC 3498)	Fabricated metal products, nec (SIC 3499)
Primary product specialization ratio <sup>1</sup> .....	91	92	78	81	89	91	83	89	88
Coverage ratio <sup>2</sup> .....	64	86	97	69	88	100	50	93	62
Number of establishments, total.....	1,463	125	33	90	588	22	65	286	974
With 1-19 employees.....	925	51	21	47	243	2	35	<sup>r</sup> 150	761
With 20-99 employees.....	397	42	7	25	191	10	19	<sup>r</sup> 100	170
With 100 employees or more.....	141	32	5	18	154	10	11	36	43
Proprietors and working partners.....Number..	779	22	18	41	145	7	23	93	492
All employees:									
Number (average for the year).....	55,476	9,640	3,495	6,758	74,994	3,837	3,195	15,214	20,200
Payroll.....\$1,000..	261,027	53,005	15,843	35,607	400,331	16,118	17,105	84,015	93,199
Production workers:									
Number (average for the year).....	44,125	7,657	2,323	5,242	54,371	3,367	2,277	11,139	15,600
March.....	43,014	7,658	2,265	5,305	56,332	3,409	2,377	11,445	15,191
May.....	41,579	7,712	2,215	5,038	52,859	3,341	2,192	10,616	14,787
August.....	43,657	7,758	2,387	4,970	53,377	3,396	2,246	11,259	15,677
November.....	48,251	7,489	2,424	5,655	55,025	3,322	2,280	11,220	16,998
Man-hours.....1,000..	86,278	15,058	4,417	9,978	106,186	6,852	4,701	22,238	29,845
January-March.....do....	20,803	3,659	1,089	2,467	27,804	1,688	1,190	5,691	7,033
April-June.....do....	20,810	3,817	1,078	2,337	26,146	1,694	1,153	5,481	6,932
July-September.....do....	20,957	3,885	1,048	2,373	24,391	1,684	1,147	5,319	7,115
October-December.....do....	23,708	3,697	1,202	2,801	27,845	1,786	1,211	5,747	8,765
Wages.....\$1,000..	184,432	38,065	10,722	25,499	262,395	12,453	10,874	55,347	62,747
Cost of materials, etc., total.....do....	425,981	154,738	18,514	65,639	506,443	19,183	53,897	174,661	160,374
Materials, parts, containers, and supplies consumed.....do....	373,917	145,384	15,898	58,306	440,047	15,186	51,356	145,637	135,030
Cost of resales.....do....	31,027	5,536	2,050	3,987	36,121	3,250	955	23,771	13,064
Fuels consumed.....do....	3,555	1,539	169	1,580	7,550	236	246	1,155	1,282
Electricity purchased.....do....	5,084	1,600	236	902	7,096	428	433	1,632	2,005
Contract work.....do....	12,398	679	161	864	15,629	83	907	2,466	8,993
Value of shipments (including resales), total.....do....	874,923	250,256	58,790	120,525	1,241,535	44,700	88,871	329,979	340,096
Value of resales.....do....	37,652	6,256	2,478	5,757	46,020	3,276	1,093	32,308	17,508
Value added by manufacture, adjusted.....do....	439,940	94,548	39,537	54,135	716,056	25,257	35,170	155,621	180,132
Manufacturers' inventories:									
Beginning of year, total.....do....	<sup>r</sup> 154,043	46,540	<sup>r</sup> 11,518	<sup>r</sup> 24,202	<sup>r</sup> 511,103	4,204	<sup>r</sup> 13,201	<sup>r</sup> 86,953	<sup>r</sup> 62,643
Finished products.....do....	59,776	4,307	3,724	3,548	130,904	955	4,346	21,779	18,841
Work-in-process.....do....	26,086	6,285	3,299	7,105	101,405	820	2,134	20,868	14,680
Materials, supplies, fuel, etc.....do....	68,181	35,948	4,495	13,549	78,794	2,429	6,721	44,306	29,122
End of year, total.....do....	140,195	44,707	10,666	21,518	284,488	3,925	12,496	82,260	59,186
Finished products.....do....	51,058	4,242	3,158	3,653	112,449	930	3,876	23,430	20,231
Work-in-process.....do....	25,802	5,380	3,126	6,249	100,824	585	2,800	19,520	13,700
Materials, supplies, fuel, etc.....do....	63,335	35,085	4,382	11,616	71,215	2,410	5,820	39,310	25,255
Expenditures for plant and equipment, total.....do....	20,673	5,319	864	2,004	36,235	1,686	3,248	4,744	12,007
New, total.....do....	18,105	4,583	683	1,721	32,748	1,572	2,855	4,103	11,362
New structures and additions to plant.....do....	5,226	1,258	122	183	8,081	312	386	1,200	2,796
New machinery and equipment.....do....	12,879	3,325	561	1,538	24,667	1,260	2,469	2,903	8,566
Used plant and equipment.....do....	2,568	736	181	283	3,487	114	393	641	645

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3481	Fabricated wire products, nec:											
	Number of establishments.....	1,463	452	229	244	262	135	107	24	9	1	...
	All employees:											
	Number.....	55,476	1,003	1,539	3,365	8,514	9,174	16,242	8,391	<u>7,248</u>	(D)	...
	Payroll.....\$1,000..	261,027	3,722	6,136	13,887	37,339	41,398	74,348	45,475	<u>38,722</u>	(D)	...
	Value added, adjusted..do....	439,940	8,659	11,104	24,511	62,417	72,013	120,551	78,853	<u>61,832</u>	(D)	...
	Value of shipments.....do....	874,923	18,820	25,958	49,008	138,103	149,264	238,212	149,341	<u>106,217</u>	(D)	...
	Capital expend., new...do....	18,105	974	884	1,511	3,119	2,951	3,642	3,947	<u>1,077</u>	(D)	...
3491	Metal barrels, drums and pails:											
	Number of establishments.....	125	21	19	11	21	21	21	10	1	...	...
	All employees:											
	Number.....	9,640	45	127	151	717	1,523	3,532	<u>3,545</u>	(D)	...	...
	Payroll.....\$1,000..	53,005	199	487	807	3,592	8,111	19,954	<u>19,855</u>	(D)	...	...
	Value added, adjusted..do....	94,548	489	1,168	1,513	6,832	17,158	37,517	<u>29,871</u>	(D)	...	...
	Value of shipments.....do....	250,256	1,344	3,741	4,471	19,464	48,524	98,940	<u>73,772</u>	(D)	...	...
	Capital expend., new...do....	4,583	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	681	( <sup>1</sup> )	1,804	<u>1,538</u>	(D)	...	...
3492	Safes and vaults:											
	Number of establishments.....	33	13	5	3	5	2	2	...	2	1	...
	All employees:											
	Number.....	3,495	27	226	(D)	(D)	467	(D)	...	<u>2,775</u>	(D)	...
	Payroll.....\$1,000..	15,843	138	<u>1,169</u>	(D)	(D)	<u>2,107</u>	(D)	...	<u>12,429</u>	(D)	...
	Value added, adjusted..do....	39,537	323	<u>2,562</u>	(D)	(D)	<u>3,027</u>	(D)	...	<u>33,625</u>	(D)	...
	Value of shipments.....do....	58,790	655	<u>3,629</u>	(D)	(D)	<u>6,627</u>	(D)	...	<u>47,879</u>	(D)	...
	Capital expend., new...do....	683	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	(D)	...	<u>530</u>	(D)	...
3493	Steel springs:											
	Number of establishments.....	90	20	13	14	14	11	12	5	...	1	...
	All employees:											
	Number.....	6,758	41	90	180	422	765	2,084	<u>3,176</u>	...	(D)	...
	Payroll.....\$1,000..	35,607	146	487	921	2,149	3,952	11,112	<u>16,840</u>	...	(D)	...
	Value added, adjusted..do....	54,135	459	901	1,687	3,301	6,106	17,226	<u>24,455</u>	...	(D)	...
	Value of shipments.....do....	120,525	932	1,442	2,925	7,275	11,863	41,987	<u>54,101</u>	...	(D)	...
	Capital expend., new...do....	1,721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	527	<u>643</u>	...	(D)	...
3494	Valves and pipe fittings:											
	Number of establishments.....	588	94	54	95	121	70	78	41	22	12	1
	All employees:											
	Number.....	74,994	188	385	1,341	3,745	5,130	12,406	14,395	15,869	<u>21,535</u>	(D)
	Payroll.....\$1,000..	400,331	989	1,962	7,070	19,443	27,709	63,128	76,078	85,523	<u>118,429</u>	(D)
	Value added, adjusted..do....	716,056	2,727	3,721	15,763	38,027	51,880	119,656	140,466	164,271	<u>179,545</u>	(D)
	Value of shipments.....do....	1,241,535	5,318	7,982	28,065	69,703	102,716	220,880	227,867	275,406	<u>303,598</u>	(D)
	Capital expend., new...do....	32,748	( <sup>1</sup> )	( <sup>1</sup> )	842	1,886	1,704	5,919	5,411	7,117	<u>9,289</u>	(D)
3496	Collapsible tubes:											
	Number of establishments.....	22	1	...	1	4	6	4	6	...	...	...
	All employees:											
	Number.....	3,837	669	...	(D)	(D)	(D)	779	2,389	...	...	...
	Payroll.....\$1,000..	16,118	<u>2,695</u>	...	(D)	(D)	(D)	3,367	10,056	...	...	...
	Value added, adjusted..do....	25,257	<u>4,971</u>	...	(D)	(D)	(D)	4,330	15,956	...	...	...
	Value of shipments.....do....	44,700	<u>9,192</u>	...	(D)	(D)	(D)	10,207	25,301	...	...	...
	Capital expend., new...do....	1,572	( <sup>1</sup> )	...	...	(D)	(D)	( <sup>1</sup> )	1,142	...	...	...
3497	Metal foil and leaf:											
	Number of establishments.....	65	16	13	6	11	8	9	1	1	...	...
	All employees:											
	Number.....	3,195	34	91	93	404	511	<u>2,062</u>	(D)	(D)	...	...
	Payroll.....\$1,000..	17,105	169	424	467	2,028	2,617	<u>11,400</u>	(D)	(D)	...	...
	Value added, adjusted..do....	35,170	540	1,106	1,483	4,933	5,413	<u>21,695</u>	(D)	(D)	...	...
	Value of shipments.....do....	88,871	1,541	3,140	5,064	10,964	13,630	<u>54,532</u>	(D)	(D)	...	...
	Capital expend., new...do....	2,855	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	<u>2,272</u>	(D)	(D)	...	...
3498	Fabricated pipe and fittings:											
	Number of establishments.....	286	48	38	64	64	36	25	7	2	2	...
	All employees:											
	Number.....	15,214	82	261	914	1,947	2,445	3,713	2,230	<u>3,622</u>	(D)	...
	Payroll.....\$1,000..	84,015	311	1,269	4,676	9,555	13,305	20,759	14,637	<u>19,503</u>	(D)	...
	Value added, adjusted..do....	155,621	820	2,341	10,283	16,149	23,348	37,991	30,984	<u>37,991</u>	(D)	...
	Value of shipments.....do....	329,979	1,644	5,431	22,820	37,614	50,098	75,080	64,893	<u>72,399</u>	(D)	...
	Capital expend., new...do....	4,103	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	697	1,112	674	589	( <sup>1</sup> )	(D)	...
3499	Fabricated metal products, nec:											
	Number of establishments.....	974	474	167	120	126	44	34	4	5	...	...
	All employees:											
	Number.....	20,200	965	1,094	1,643	3,802	2,908	5,259	1,460	3,069	...	...
	Payroll.....\$1,000..	93,199	3,446	4,357	7,034	15,696	12,614	25,081	8,060	16,911	...	...
	Value added, adjusted..do....	180,132	7,131	8,822	13,731	28,669	27,998	45,631	15,156	32,994	...	...
	Value of shipments.....do....	340,096	15,626	16,995	26,017	56,905	53,815	85,788	26,969	57,981	...	...
	Capital expend., new...do....	11,362	1,248	640	858	1,318	3,379	1,757	( <sup>1</sup> )	1,733	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousands.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3481	Fabricated wire products, nec...1958..	874,923	744,522	69,588	60,813	91	1,164,232	744,522	419,710	<sup>9</sup> 64
	1954..	768,709	649,257	82,284	37,168	89	982,720	649,257	333,463	66
3491	Metal barrels, drums, and pails.....1958..	250,256	222,581	18,974	8,701	92	258,953	222,581	36,372	86
3492	Safes and vaults.....1958..	58,790	<sup>r</sup> 43,580	<sup>r</sup> 9,630	5,480	<sup>r</sup> 82	<sup>r</sup> 45,088	<sup>r</sup> 43,680	1,408	<sup>r</sup> 97
	1954..	41,758	32,854	4,800	4,124	87	33,969	32,854	1,135	97
3493	Steel springs.....1958..	120,525	91,489	21,908	7,128	81	133,143	91,489	41,654	69
	1954..	122,928	96,052	18,051	8,825	84	129,593	96,052	33,541	74
3494	Valves and pipe fittings.....1958..	1,241,535	1,039,738	131,735	70,062	89	1,182,730	1,039,738	142,992	88
	1954..	989,463	787,490	142,694	59,279	85	911,678	787,490	124,188	86
3496	Collapsible tubes.....1958..	44,700	37,172	3,675	3,853	91	37,172	37,172	...	100
	1954..	38,067	34,129	2,375	1,563	93	34,129	34,129	...	100
3497	Metal foil and leaf.....1958..	88,871	69,663	14,766	4,442	83	138,778	69,663	69,115	50
3498	Fabricated pipe and fittings....1958..	329,979	246,957	29,540	53,482	89	265,378	246,957	18,421	93
	1954..	249,923	188,380	15,634	45,909	92	214,133	188,380	25,753	88
3499	Fabricated metal products, nec..1958..	340,096	273,386	38,303	28,407	88	443,638	273,386	170,252	62
	1954..	254,081	193,846	33,594	26,641	85	364,769	193,846	170,923	53

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Included in this industry are selected fabricated wire products (see footnotes 3, 5, 6, and 7, in table 5B) which are also primary to Industry 3315, Steel Wire Drawing. A coverage ratio computed on the basis of including both industries to which these products are primary would total 76 percent; 64 percent by Industry 3481, and 12 percent by Industry 3315. The remaining 24 percent was shipped by establishments in other industries, including Industry 3312, Blast Furnaces and Steel Mills and Industry 3357, Drawing and Insulating of Nonferrous Wire.

<sup>r</sup>Revised.

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Fabricated wire products industry	Fabricated wire products, nec (SIC 3481)	Blast furnaces and steel mills (SIC 3312)	Steel wire drawing (SIC 3315)	Nonferrous wire drawing, etc. (SIC 3357)	Steel springs (SIC 3493)	Other industries <sup>1</sup>	All industries
	Total shipments and receipts of the industry.....	874,923	xxx	xxx	xxx	xxx	xxx	xxx
	Primary products.....	744,522	182,031	137,251	(D)	9,395	(D)	1,164,232
34811	Noninsulated ferrous wire rope, cable, etc.....	65,645	18,344	75,762	( <sup>2</sup> )	...	3,635	<sup>3</sup> 163,386
34812	Precision mechanical springs.....	92,911	(D)	(D)	(D)	8,498	7,575	108,984
34813	Other wire springs.....	160,989	(D)	(D)	...	895	<sup>4</sup> 25,888	187,772
34816	Fencing and fence gates.....	47,966	40,114	7,931	...	...	7,298	<sup>5</sup> 103,309
34817	Wire cloth and other woven wire products.....	108,947	15,871	10,072	18,445	...	3,660	<sup>6</sup> 156,995
34819	Other fabricated wire products.....	231,200	106,014	37,154	...	...	31,288	<sup>7</sup> 405,656
34810	Miscellaneous fabricated wire products, nsk.....	36,864	(D)	...	...	...	(D)	38,130
	Secondary products.....	69,588	xxx	xxx	xxx	xxx	xxx	xxx
3461-	Metal stampings.....	8,715	xxx	xxx	xxx	xxx	xxx	xxx
34930	Steel springs.....	14,313	xxx	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	<sup>8</sup> 46,560	xxx	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	60,813	xxx	xxx	xxx	xxx	xxx	xxx
	Contract work.....	4,138	xxx	xxx	xxx	xxx	xxx	xxx
	Installation.....	5,988	xxx	xxx	xxx	xxx	xxx	xxx
	Sale of products bought and resold.....	37,635	xxx	xxx	xxx	xxx	xxx	xxx
	All other receipts.....	13,052	xxx	xxx	xxx	xxx	xxx	xxx
Prod. class code	Metal barrels, drums, and pails industry	Metal barrels, drums, and pails (SIC 3491)		Other industries		All industries		
	Total shipments and receipts of the industry.....	250,256		xxx		xxx		
	Primary products.....	222,581		36,372		258,953		
34911	Steel shipping pails (1-12 gallon capacity).....	63,368		<sup>9</sup> 16,861		80,229		
34912	Steel barrels and drums (over 12 gallon capacity), except beer barrels.....	146,901		<sup>10</sup> 15,474		162,375		
34913	All other barrels, including beer barrels and fluid milk shipping containers.....	10,852		3,871		14,723		
34910	Metal barrels, drums, and pails, nsk.....	1,460		166		1,626		
	Secondary products.....	18,974		xxx		xxx		
34618	Miscellaneous stamped and pressed metal end products....	7,901		xxx		xxx		
	All other secondary products.....	<sup>11</sup> 11,073		xxx		xxx		
	Miscellaneous receipts.....	8,701		xxx		xxx		
	Sale of products bought and resold.....	6,256		xxx		xxx		
	All other receipts.....	2,445		xxx		xxx		
Prod. class code	Safes and vaults industry	Safes and vaults (SIC 3492)		Other industries		All industries		
	Total shipments and receipts of the industry.....	58,790		xxx		xxx		
34920	Safes and vaults.....	<sup>12</sup> 43,680		1,408		<sup>13</sup> 45,088		
	Secondary products.....	<sup>12</sup> 9,630		xxx		xxx		
	Miscellaneous receipts.....	5,480		xxx		xxx		
	Sale of products bought and resold.....	2,478		xxx		xxx		
	All other receipts.....	3,002		xxx		xxx		
Prod. class code	Steel springs industry	Steel springs (SIC 3493)		Other industries		All industries		
	Total shipments and receipts of the industry.....	120,525		xxx		xxx		
34930	Steel springs.....	91,489		<sup>14</sup> 41,654		133,143		
	Secondary products.....	21,908		xxx		xxx		
34812	Precision mechanical springs.....	8,498		xxx		xxx		
	All other products.....	<sup>14</sup> 13,410		xxx		xxx		
	Miscellaneous receipts.....	7,128		xxx		xxx		
	Sale of products bought and resold.....	5,757		xxx		xxx		
	All other receipts.....	1,371		xxx		xxx		

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Valves and fittings industry	Valves and pipe fittings (SIC 3494)	Non- electric heating equipment (SIC 3433)	Steam engines and turbines (SIC 3511)	Oil field machines and equipment (SIC 3533)	Pumps and com- pressors (SIC 3561)	Mechanical measuring devices (SIC 3821)	Other indus- tries <sup>1</sup>	All indus- tries
	Total shipments and receipts of the industry.....	1,241,535	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Primary products.....	1,039,738	(D)	5,973	(D)	17,452	(D)	(D)	1,182,730
34941	Valves for piping systems.....	504,407	1,500	5,973	6,686	4,322	10,072	26,880	559,840
34942	Fittings and unions for piping systems.....	318,673	(D)	...	(D)	816	131	154,331	363,951
34943	Plumbing and heating valves, except plumbers'.....	69,240	7,461	...	...	3,991	(D)	6,418	87,110
34944	Other valves and fittings, except plumbers'.....	127,888	(D)	...	( <sup>2</sup> )	8,323	463	14,800	151,564
34940	Valves and fittings, nsk.....	19,530	...	...	( <sup>2</sup> )	...	( <sup>2</sup> )	(D)	20,265
	Secondary products.....	131,735	xxx	xxx	xxx	xxx	xxx	xxx	xxx
34320	Plumbing and fixture fittings and trim.....	14,623	xxx	xxx	xxx	xxx	xxx	xxx	xxx
35690	General industrial machinery and equipment, nec.....	5,786	xxx	xxx	xxx	xxx	xxx	xxx	xxx
35857	Miscellaneous refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment.....	5,986	xxx	xxx	xxx	xxx	xxx	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.	5,361	xxx	xxx	xxx	xxx	xxx	xxx	xxx
37224	Aircraft engines parts (including parts for missile engines).....	7,309	xxx	xxx	xxx	xxx	xxx	xxx	xxx
38213	Industrial process instruments.....	11,722	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	All other secondary products.....	80,948	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	70,062	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Receipts for contract work.....	7,404	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Scrap.....	10,985	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Sale of products bought and resold.....	46,020	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	All other receipts.....	5,653	xxx	xxx	xxx	xxx	xxx	xxx	xxx
Prod. class code	Collapsible tubes industry	Collapsible tubes (SIC 3496)		Other industries			All industries		
	Total shipments and receipts of the industry.....	44,700		xxx			xxx		
34960	Collapsible tubes.....	37,172		...			37,172		
	Secondary products.....	3,675		xxx			xxx		
30799	Fabricated plastic products, nec.....	2,157		xxx			xxx		
	All other secondary products.....	1,518		xxx			xxx		
	Miscellaneous receipts.....	3,853		xxx			xxx		
	Sale of products bought and resold.....	3,276		xxx			xxx		
	All other receipts.....	577		xxx			xxx		
Prod. class code	Metal foil and leaf industry	Metal foil and leaf (SIC 3497)	Paper coating and glazing (SIC 2641)	Bags, except textile bags (SIC 2643)	Printing: letter- press (SIC 2751)	Aluminum rolling and drawing (SIC 3352)	Other industries	All industries	
	Total shipments and receipts of the industry.....	88,871	xxx	xxx	xxx	xxx	xxx	xxx	
34970	Metal foil and leaf.....	69,663	11,029	5,915	11,396	38,226	2,549	138,778	
	Secondary products.....	14,766	xxx	xxx	xxx	xxx	xxx	xxx	
36432	Specialty bags and liners.....	2,101	xxx	xxx	xxx	xxx	xxx	xxx	
27518	Miscellaneous gravure printing.....	7,581	xxx	xxx	xxx	xxx	xxx	xxx	
	All other products.....	5,084	xxx	xxx	xxx	xxx	xxx	xxx	
	Miscellaneous receipts.....	4,442	xxx	xxx	xxx	xxx	xxx	xxx	
	Scrap.....	1,801	xxx	xxx	xxx	xxx	xxx	xxx	
	Sale of products bought and resold.....	1,093	xxx	xxx	xxx	xxx	xxx	xxx	
	All other receipts.....	1,548	xxx	xxx	xxx	xxx	xxx	xxx	
Prod. class code	Fabricated pipe and fittings industry	Fabricated pipe and fittings (SIC 3498)		Valves and pipe fittings (SIC 3494)		Other industries		All industries	
	Total shipments and receipts of the industry.....	329,979		xxx		xxx		xxx	
34980	Fabricated pipe and fittings.....	246,957		2,381		16,040		265,378	
	Secondary products.....	29,540		xxx		xxx		xxx	
35690	General industrial machinery, nec.....	5,279		xxx		xxx		xxx	
	All other products.....	1724,261		xxx		xxx		xxx	
	Miscellaneous receipts.....	53,482		xxx		xxx		xxx	
	Receipts for contract work.....	9,277		xxx		xxx		xxx	
	Sale of products bought and resold.....	32,308		xxx		xxx		xxx	
	All other receipts.....	11,897		xxx		xxx		xxx	

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry,  
for the United States: 1958-Continued

Prod. class code	Fabricated metal products, nec, industry	Fabricated metal products, nec (SIC 3499)	Blast furnaces and steel mills (SIC 3312)	Hardware, nec (SIC 3429)	Boiler shop products (SIC 3443)	Other industries	All industries
	Total shipments and receipts of the industry.....	340,096	xxx	xxx	xxx	xxx	xxx
34990	Fabricated metal products, nec.....	273,386	67,940	8,704	5,950	<sup>18</sup> 87,658	443,638
	Secondary products.....	<sup>19</sup> 38,303	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	28,407	xxx	xxx	xxx	xxx	xxx
	Receipts for contract work.....	5,450	xxx	xxx	xxx	xxx	xxx
	Sale of products bought and resold.....	17,508	xxx	xxx	xxx	xxx	xxx
	All other receipts.....	5,449	xxx	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.<sup>1</sup>Includes values for those industries for which separate data could not be published without revealing the operations of individual companies.

The symbol "D" appears in the appropriate column for such industries.

<sup>2</sup>Less than \$100 thousand.<sup>3</sup>Includes total for product class 33151, Noninsulated ferrous wire rope, cable, etc., made by wire drawers, which is primary to Industry 3315.<sup>4</sup>Includes shipments totaling over \$5 million by Industry 3429, Hardware, NEC, but withheld to avoid disclosing individual company figures.<sup>5</sup>Includes total for product class 33156, Fencing and fence gates produced by wire drawers, which is primary to Industry 3315.<sup>6</sup>Includes totals for product class 33157, Ferrous wire cloth and ferrous woven wire products made by wire drawers, which is primary to Industry 3315; and product class 33573, Nonferrous woven wire products made by wire drawers, which is primary to Industry 3357.<sup>7</sup>Includes total for product class 33159, Other fabricated wire products produced by wire drawers, which is primary to Industry 3315.<sup>8</sup>Includes product class 35319, Miscellaneous construction machinery and equipment, including parts, which totals over \$5 million, but is withheld to avoid disclosure of individual company figures.<sup>9</sup>Includes \$11 million shipped by Industry 3411, Metal Cans, and \$3 million shipped by Industry 3461, Metal Stampings.<sup>10</sup>Includes shipments of \$5 million each shipped by Industry 3433, Nonelectric Heating Equipment, and Industry 3639, Household Appliances, NEC.<sup>11</sup>Includes product class 34411, Fabricated structural iron and steel for buildings which totaled over \$2 million but is withheld to avoid disclosing individual company figures.<sup>12</sup>Includes product class 25223, Cabinets and cases, which totaled over \$2 million but is withheld to avoid disclosing individual company figures.<sup>13</sup>Includes \$14 million shipped by Industry 3481, Fabricated Wire Products, NEC; also an amount over \$2 million each shipped by Industry 3391, Iron and Steel Forgings, and Industry 3717, Motor Vehicles and Parts, which is withheld to avoid disclosing individual company figures.<sup>14</sup>Includes product class 33167, Cold rolled steel sheet and strip (not made in steel mills) which totaled over \$2 million but is withheld to avoid disclosing individual company figures.<sup>15</sup>Includes an amount over \$2 million shipped by Industry 3391, Iron and Steel Forgings, which is withheld to avoid disclosing individual company figures.<sup>16</sup>Includes an amount over \$2 million each shipped by Industry 3369, Nonferrous Castings, NEC, and Industry 3561, Pumps and Compressors, which is withheld to avoid disclosing individual company figures.<sup>17</sup>Includes the following product classes which totaled over \$2 million but are withheld to avoid disclosing individual company figures: 34294, Builders' hardware; 34431, Heat exchangers and steam condensers; and 37291, Miscellaneous aircraft parts and auxiliary equipment.<sup>18</sup>Includes \$5 million shipped by Industry 3461, Metal Stampings; \$3 million each shipped by Industry 2514, Metal Household Furniture; Industry 2542, Metal Partitions and Fixtures; Industry 3444, Sheet Metal Work; and Industry 3559, Special Industrial Machinery, NEC; and \$2 million shipped by Industry 3449, Miscellaneous Metal Work, NEC. Also, includes an amount between \$2 and \$5 million each for the following industries, but which is withheld to avoid disclosing individual company figures: Industry 3321, Gray Iron Castings; Industry 3352, Aluminum Rolling and Drawing; Industry 3369, Nonferrous Castings, NEC; Industry 3494, Valves and Pipe Fittings; and Industry 3531, Construction Machinery.<sup>19</sup>Includes product class 24995 which totaled over \$2 million but is withheld to avoid disclosing individual company figures.



## FABRICATED METAL PRODUCTS, N.E.C.

34E-19

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3481--	Miscellaneous fabricated wire products, total.....		xxx	1,164,232	xxx	982,720
33151-- 34811--	Noninsulated ferrous wire rope, cable, and strand.....		xxx	163,386	xxx	142,875
33151--	Made in Industries 3312 (Blast Furnaces and Steel Mills) and 3315 (Steel Wire Drawing).....		xxx	94,106	xxx	(NA)
34811--	Made in Fabricated Wire Products, NEC (Industry 3481) and other industries.....		xxx	69,280	xxx	(NA)
3315111 3481111	Iron and steel wire rope and cable.....	Short tons...	187,395	125,025	169,076	106,877
3315111	Made in Industries 3312 and 3315.....	..do.....	96,686	62,561	(NA)	(NA)
3481111	Made in Industry 3481 and other industries.....	..do.....	90,709	62,464	(NA)	(NA)
3315121 3481121	Composite strand, rope, and cable, including wire strands of different metals (except ACSR).....	..do.....	78,321	76,155	(NA)	5,516
3315131 3481131	Iron and steel wire strand (including guard rail cable):					
	Quantity reported.....	..do.....	764,297	725,583	79,517	29,228
	Quantity not reported.....		xxx	4,769	...	...
3315100 3481100	Noninsulated ferrous wire rope, cable, and strand, nsk.....		xxx	1,854	xxx	1,254
3481211	Precision mechanical springs.....	Short tons...	102,586	108,984	(NA)	98,049
34813--	Other wire springs.....		xxx	187,772	xxx	191,071
3481311	Upholstery and furniture springs (unassembled): Seat and back springs for motor vehicles:					
	Quantity reported.....	Short tons...	122,349	61,700	168,729	88,117
	Quantity not reported.....		xxx	14,844	...	...
3481313	Springs for mattresses and bedsprings:					
	Quantity reported.....	Short tons...	15,132	7,049	14,489	5,114
	Quantity not reported.....		xxx	1,107	xxx	2,048
3481317	Spring units for box springs, innerspring mattresses, and dual purpose sleep furniture.....	Short tons...	(NA)	54,261	(NA)	58,191
3481318	Spring units for upholstered furniture:					
	Quantity reported.....	Short tons...	23,090	10,428		
	Quantity not reported.....		xxx	3,254		
3481319	Other upholstery and furniture springs (unassembled):					
	Quantity reported.....	Short tons...	7,592	2,916	23,157	8,479
	Quantity not reported.....		xxx	473	xxx	1,860
3481398	Other wire springs:					
	Quantity reported.....	Short tons...	28,129	15,578	29,005	15,560
	Quantity not reported.....		xxx	3,916	xxx	4,769
3481300	Wire springs, nsk.....		xxx	12,246	xxx	6,933
33156-- 34816--	Fencing and fence gates.....		xxx	103,309	xxx	92,909
33156--	Made in Industries 3312 (Blast Furnaces and Steel Mills) and 3315 (Steel Wire Drawing).....		xxx	48,045	xxx	(NA)
34816--	Made in Fabricated Wire Products, NEC (Industry 3481) and other industries.....		xxx	55,264	xxx	(NA)
3315611 3481611	Chain link fencing (including posts, gates, and fittings).....	Short tons...	(NA)	54,253	135,927	45,648
3315611	Made in Industries 3312 and 3315.....	..do.....	51,456	11,654	(NA)	(NA)
3481611	Made in Industry 3481 and other industries:					
	Quantity reported.....	..do.....	87,110	31,682	(NA)	(NA)
	Quantity not reported.....		xxx	10,917	xxx	(NA)
3315621 3481621	Wire fence, woven and welded.....	Short tons...	(NA)	34,363	208,326	33,177
3315621	Made in Industries 3312 and 3315.....	..do.....	127,770	30,194	(NA)	(NA)
3481621	Made in Industry 3481 and other industries:					
	Quantity reported.....	..do.....	9,352	3,064	(NA)	(NA)
	Quantity not reported.....		xxx	1,105	xxx	(NA)
3315631 3481631	Fence gates, wire, excluding chain link.....	Short tons...	(NA)	2,024	(NA)	3,313
3315631	Made in Industries 3312 and 3315.....	Short tons...	2,388	1,063	(NA)	(NA)
3481631	Made in Industry 3481 and other industries:					
	Quantity reported.....	..do.....	4,709	817	(NA)	(NA)
	Quantity not reported.....		xxx	144	xxx	(NA)
3315671 3481671	Ornamental lawn fence.....	Short tons...	19,754	5,695	37,811	8,051
3315671	Made in Industries 3312 and 3315.....	..do.....	17,995	5,134	(NA)	(NA)
3481671	Made in Industry 3481 and other industries.....	..do.....	1,759	561	(NA)	(NA)
3481600	Fencing and fence gates, nsk.....		xxx	6,974	xxx	2,720

See footnotes at end of table.

**MANUFACTURES—INDUSTRY STATISTICS**  
**Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,**  
**for the United States: 1958 and 1954—Continued**

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3481--	Miscellaneous fabricated wire products--Continued					
33157--	Wire cloth and other woven wire products.....		xxx	156,995	xxx	131,175
33573--						
34817--						
33157--			xxx	25,943	xxx	38,096
33573--	Made in Industry 3357 (Nonferrous Wire Drawing, etc.).....		xxx	18,445	xxx	38,096
34817--	Made in Industry 3481 and other industries.....		xxx	112,607	xxx	93,079
	Insect wire screening:					
3315721	Steel.....	1,000 sq. ft..	217,660	9,791	295,872	13,162
3481711						
3315721	Made in Industries 3312 and 3315.....	..do.....	65,354	3,135	(NA)	(NA)
3481711	Made in Industry 3481 and other industries.....	..do.....	152,306	6,656	(NA)	(NA)
3357323	Copper and copper-base alloy.....	..do.....	(NA)	2,921	53,792	5,102
3481713						
3357323	Made in Industry 3357.....	..do.....	3,607	350	(NA)	(NA)
3481713	Made in Industry 3481 and other industries:					
	Quantity reported.....	..do.....	23,792	1,982	(NA)	(NA)
	Quantity not reported.....		xxx	589	xxx	(NA)
3357325	Aluminum.....	1,000 sq. ft..	305,356	18,239	212,874	16,279
3481715						
3357325	Made in Industry 3357.....	..do.....	107,875	6,478	(NA)	(NA)
3481715	Made in Industry 3481 and other industries.....	..do.....	197,481	11,761	(NA)	(NA)
3357329	Nonferrous metal, excluding copper, copper-base alloy, and aluminum...	..do.....	( <sup>1</sup> )	( <sup>1</sup> )	(NA)	125
3481719						
3315731	Hardware cloth.....	Short tons...	10,162	7,218	10,892	6,071
3481731						
3315731	Paper machine wire cloth (fourdrinier and cylinder).....	..do.....	29,343	39,364	17,814	20,690
3481751						
	Industrial wire cloth:					
3315761	Steel.....	1,000 sq. ft..	48,508	24,675	58,993	24,536
3481761						
3315761	Made in Industries 3312 and 3315.....	..do.....	17,041	3,200	(NA)	(NA)
3481761	Made in Industry 3481 and other industries.....	..do.....	31,467	21,475	(NA)	(NA)
3357365	Nonferrous metal:					
3481765						
	Quantity reported.....	..do.....	8,496	5,599	...	...
	Quantity not reported.....		xxx	1,435	xxx	8,828
3315771	Woven wire netting (poultry, fur farm, stucco, etc.).....	Short tons...	52,189	16,460	65,498	16,544
3481771						
3315771	Made in Industries 3312 and 3315.....	..do.....	47,326	14,632	(NA)	(NA)
3481771	Made in Industry 3481 and other industries.....	..do.....	4,863	1,828	(NA)	(NA)
3315798	Other wire cloth and woven wire products (including diamond cloth, spiral cloth, drying belts, etc.).....	1,000 sq. ft..	(NA)	<sup>1</sup> 16,679	(NA)	14,562
3481798						
3357300	Wire cloth and woven wire products, nsk.....		xxx	14,614	xxx	5,276
3481700						
3357300	Made in Industry 3357.....		xxx	731	xxx	(NA)
3481700	Made in Industry 3481 and other industries.....		xxx	13,883	xxx	(NA)
33159--	Other fabricated wire products.....		xxx	405,656	xxx	313,382
34819--						
33159--	Made in Industries 3312 and 3315.....		xxx	143,168	xxx	111,552
34819--	Made in Industry 3481 and other industries.....		xxx	262,488	xxx	201,830
3315941	Wire chain, tire.....	Short tons...	28,844	20,141	19,738	9,912
3481941						
3315941	Made in Industries 3312 and 3315.....	..do.....	9,626	7,018	(NA)	(NA)
3481941	Made in Industry 3481 and other industries.....	..do.....	19,218	13,123	(NA)	(NA)
3315949	Wire chain, other.....	..do.....	47,944	34,553	43,960	25,112
3481949						
3315949	Made in Industries 3312 and 3315.....	..do.....	14,557	11,649	(NA)	(NA)
3481949	Made in Industry 3481 and other industries.....	..do.....	33,387	22,904	(NA)	(NA)
3315951	Barbed and twisted wire.....	..do.....	57,388	12,131	142,188	23,041
3481951						
3315955	Wire bale ties.....	..do.....	71,260	15,682	93,551	16,575
3481955						
3315955	Made in Industries 3312 and 3315.....	..do.....	56,717	12,181	(NA)	(NA)
3481955	Made in Industry 3481 and other industries.....	..do.....	14,543	3,501	(NA)	(NA)
	Welded steel wire fabric:					
3315961	Concrete reinforcing mesh.....	..do.....	516,694	97,539	407,308	60,491
3481961						
3315961	Made in Industries 3312 and 3315.....	..do.....	435,148	80,106	(NA)	(NA)
3481961	Made in Industry 3481 and other industries.....	..do.....	81,546	17,433	(NA)	(NA)

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3481---	Miscellaneous fabricated wire products--Continued					
33159--	} Other fabricated wire products--Continued					
34819--						
	Welded steel wire fabric--Continued					
3315965	Other welded steel wire fabric.....	Short tons....	74,392	19,454	81,701	20,179
3481965	Made in Industries 3312 and 3315.....	..do.....	64,145	16,207	(NA)	(NA)
3315965	Made in Industry 3481 and other industries.....	..do.....	10,247	3,247	(NA)	(NA)
3481965						
3315971	} Wire garment hangers.....	1,000 lbs....	146,672	19,517	131,816	17,042
3481971						
3315971	Made in Industries 3312 and 3315.....	..do.....	2,134	215	(NA)	(NA)
3481971	Made in Industry 3481 and other industries.....	..do.....	144,538	19,302	(NA)	(NA)
3315998	} Other wire products, including cages, guards, florists' designs, kitchenware goods, paper clips, etc.....		xxx	158,475	xxx	141,030
3481998						
3315998	Made in Industries 3312 and 3315.....	..do.....	xxx	4,082	xxx	(NA)
3481998	Made in Industry 3481 and other industries.....	..do.....	xxx	154,393	xxx	(NA)
3315900	} Other fabricated wire products, nsk.....		xxx	28,164	...	...
3481900						
3481000	Miscellaneous fabricated wire products, nsk.....		xxx	38,130	xxx	13,259
3491---	Metal barrels, drums, and pails, total.....		xxx	258,953	xxx	211,255
3491111	Steel shipping packages, kegs, and pails (12 gallon capacity and under) <sup>2</sup> : Reported in Census of Manufactures.....	1,000 units...	xxx	80,229	68,698	54,771
	Reported on Monthly Form M34K.....	..do.....	72,179	(NA)	69,827	(NA)
	Detailed figures by type of pail from monthly survey:					
3491115	Tapered pails.....	..do.....	9,039	(NA)	69,827	(NA)
3491119	Dome top pails.....	..do.....	4,143			
	Other types, for sale and for own use.....	..do.....	58,997			
	For sale.....	..do.....	57,146			
3491121	1 to 2 gallon capacity.....	..do.....	2,957			
3491125	Over 2 but not including 5 gallon capacity.....	..do.....	3,564			
3491129	5 gallon capacity, 24 gauge and heavier.....	..do.....	20,152			
3491131	5 gallon capacity, 26 gauge.....	..do.....	23,261			
3491135	5 gallon capacity, 28 gauge and lighter.....	..do.....	2,304			
3491139	Over 5 gallon up to and including 7 gallon capacity, 11-1/4" diameter or less.....	..do.....	3,303			
3491141	7 to 12 gallon capacity, diameters over 11-1/4".....	..do.....	1,605			
	For own use.....	..do.....	1,851	1,302		
3491121-35	1 to 5 gallon capacity.....	..do.....				
3491139	Over 5 gallon up to and including 7 gallon capacity, 11-1/4" diameter or less.....	..do.....				
3491141	7 to 12 gallon capacity, diameter over 11-1/4".....	..do.....	549			
	Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels:					
3491210	Reported in Census of Manufacturers.....	1,000 units...	xxx	162,375	33,075	143,854
	Reported on Monthly Form M34K.....	..do.....	31,491	(NA)	32,552	(NA)
	Detailed data by size of container from monthly survey:					
	Heavy type.....	..do.....	19,018	(NA)	22,051	(NA)
	Tight head liquid type.....	..do.....	15,273	(NA)	22,051	(NA)
	55 gallon capacity:					
3491211	16 gauge and heavier.....	..do.....	767			
3491215	18 gauge.....	..do.....	12,065			
3491219	19 gauge and lighter.....	..do.....	493			
3491225	30 to 33 gallon capacity.....	..do.....	1,036			
3491229	All other capacities.....	..do.....	912			
	Full open head type.....	..do.....	3,745			
	55 gallon capacity and larger:					
3491231	18 gauge and heavier.....	..do.....	2,527			
3491235	19 and 20 gauge.....	..do.....	93			
3491239	All other capacities, 20 gauge and heavier.....	..do.....	1,125			
	Light type.....	..do.....	9,315	(NA)	10,069	(NA)
	For sale.....	..do.....	7,178	(NA)	7,305	(NA)
	Welded side seam construction.....	..do.....	3,276	(NA)	2,550	(NA)
3491241	Over 30 gallon capacity, 22 to 26 gauge.....	..do.....	1,141	(NA)	2,550	(NA)
3491245	30 gallon capacity and smaller, 22 to 26 gauge.....	..do.....	1,546			
3491249	All other capacities, 28 to 30 gauge.....	..do.....	589			
3491251	Lock side seam construction.....	..do.....	3,902	(NA)	4,755	(NA)
3491241-51	} For own use.....	..do.....	2,137	(NA)	2,764	(NA)
3491261		..do.....	3,158	(NA)	4,433	(NA)

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfe.			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3491---	Metal barrels, drums, and pails--Continued					
34913--	All other metal barrels, including beer barrels and fluid milk shipping containers.....		xxx	14,723	xxx	12,630
3491312	All other metal barrels (including beer barrels and parts for metal barrels and pails).....		xxx	10,137	xxx	3,992
3491331	Metal fluid milk shipping and delivery containers (except crates).....	1,000 units...	(NA)	4,586	1,071	8,638
3491000	Metal barrels, drums, and pails, nsk.....		xxx	1,626	...	...
3492---	Safes and vaults, total.....		xxx	145,088	xxx	33,969
	Safes and chests:					
	Fire-resistive safes (insulated <sup>5</sup> :					
3492013	One, two, and four-hour types.....	Number.....	} 164,114	110,323	164,267	19,379
3492017	All other fire-resistive safes.....	..do.....				
3492021	Burglary-resistive safes and chests <sup>5</sup> :					
	Quantity reported.....	..do.....	15,694	3,616	10,694	2,408
	Quantity not reported.....		xxx	626	...	...
3492041	Safe deposit boxes:					
	Quantity reported.....	Number.....	291,403	7,038	480,382	6,887
	Quantity not reported.....		xxx	1,975	...	...
3492098	All other bank and security vaults and equipment (including bank security lockers and night depositories, and interior equipment for safes and chests).....		xxx	18,880	xxx	114,002
3492000	Safes and vaults, nsk.....		xxx	12,030	xxx	1,295
3493---	Steel springs, total.....		xxx	133,143	xxx	129,593
	Helical springs, hot wound:					
	Automobile coil springs:					
3493011	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	Short tons...	47,642	13,887	36,745	9,612
3493013	Shipments to other customers.....	..do.....	7,281	2,624	5,525	2,305
3493015	Locomotive and railroad car.....	..do.....	22,831	7,133	18,456	4,985
3493019	Other helical springs, hot wound.....	..do.....	5,596	2,304	15,560	5,151
	Leaf springs:					
3493031	Locomotive and railroad car.....	..do.....	2,285	898	( <sup>e</sup> )	( <sup>e</sup> )
	Automotive (auto, truck, bus, trailer, etc.):					
3493051	Shipments to motor vehicle manufacturers.....	..do.....	185,036	60,125	248,762	68,244
3493059	Shipments to other customers.....	..do.....	30,676	12,828	32,809	12,679
3493061	Leaf springs for tractors, farm equipment, and other heavy equipment....	..do.....	7,625	2,428	10,899	3,170
3493071	Flat springs made of sheet and strip.....		xxx	19,502	xxx	15,565
3493081	Torsion bar springs.....		xxx	1,097	xxx	2,074
3493098	Other steel springs, except wire.....		xxx	2,026	xxx	2,499
3493000	Steel springs, except wire, nsk.....		xxx	8,291	xxx	3,309
3494---	Valves and fittings (except plumbers' brass goods and fittings).....		xxx	1,182,730	xxx	7911,678
34941--	Metal valves for piping systems (except plumbing and heating valves).....		xxx	559,840	xxx	420,305
	Gates, globes, angles, checks, butterflies, lubricated plugs, cocks, stop and checks, cross, etc. (except automatic regulating valves):					
3494111	Iron (all pressure) (including fire hydrants).....	Short tons...	150,272	137,406	160,276	111,108
3494113	Steel (carbon and alloy) (all pressure).....	..do.....	60,808	175,727	60,677	127,899
3494115	Brass and bronze (125 lb. W.S.P. and over).....	..do.....	21,629	75,032	28,429	65,860
	Pop safety valves and relief valves (over 15 lb. W.S.P.):					
3494131	Iron.....	..do.....	1,046	2,422	(NA)	5,359
3494133	Steel (carbon and alloy).....	..do.....	3,632	11,404	2,290	7,365
3494135	Brass and bronze.....	..do.....	1,730	16,174	1,216	4,235
	Automatic regulating valves:					
3494151	Diaphragm actuated.....		xxx	71,311	xxx	38,954
3494153	Float actuated (including float cages).....	1,000 units...	(NA)	5,414	(NA)	4,166
3494155	Other automatic regulating valves.....		xxx	51,988	xxx	38,726
3494157	Compressed gas cylinder valves.....	1,000 units...	(NA)	8,864	2,362	4,432
3494100	Metal valves and fittings for piping systems, nsk.....		xxx	14,098	xxx	12,201
34942--	Metal fittings and unions (except compression fittings, flared fittings, and bell and spigot pressure and soil pipe fittings).....		xxx	363,951	xxx	304,425
3494211	Gray-iron fittings, flanges, and flange unions.....	Short tons...	73,829	29,404	99,355	31,759
3494213	Malleable-iron fittings and flanges.....	..do.....	61,976	44,076	80,565	51,150
3494215	Malleable-iron unions and union fittings.....	..do.....	15,867	12,966	15,934	14,870
3494217	Cast and forged carbon and alloy steel fittings, flanges and unions.....	..do.....	101,911	109,143	91,370	85,317
3494218	Cast and wrought, copper and copper-base alloy fittings, flanges, and unions.....	..do.....	37,457	62,397	27,359	44,899
	Steam traps (over 15 lb. W.S.P.):					
3494251	Thermostatic and combination float and thermostatic.....	1,000 units...	697	6,355	775	5,946
3494255	Mechanical.....	..do.....	330	4,241	262	2,825
3494298	Other metal valves and piping specialties for piping systems (except plumbing and heating valves).....		xxx	95,369	xxx	67,659

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3494---	Valves and fittings (except plumbers' brass goods and fittings)--Continued					
34943--	Plumbing and heating valves and specialties, except plumbers' brass goods and fittings.....		xxx	87,110	xxx	94,035
3494311	Gates, globes, angles, checks, butterflies, lubricated plugs, cocks, stop and checks, cross, etc., brass and bronze valves (under 125 lb. W.S.P.).....	Short tons....	17,540	38,250	16,119	38,094
3494331	Pop safety valves and relief valves (15 lb. W.S.P. and under).....	...do.....	261	1,798	627	2,001
3494351	Steam traps (15 lb. W.S.P. and under).....	...do.....	xxx	4,087	xxx	5,598
3494398	Other metal plumbing and heating valves and specialties.....	...do.....	xxx	39,851	xxx	47,416
3494300	Plumbing and heating valves and specialties, except plumbers' brass goods and fittings, nsk.....	...do.....	xxx	3,124	xxx	926
34944--	Other metal valves and fittings, except plumbers' brass goods and fittings.....	...do.....	xxx	151,564	xxx	788,397
3494471	Pipe hangers and pipe supports.....	...do.....	xxx	13,497	xxx	(NA)
3494498	Other metal valves and fittings, except plumbers' brass goods and fittings.....	...do.....	xxx	138,067	xxx	88,397
3494000	Valves and fittings, except plumbers' brass goods and fittings, nsk.....	...do.....	xxx	20,265	xxx	4,516
3496---	Collapsible tubes, total.....		xxx	37,172	xxx	34,129
3496011	Aluminum.....	1,000 gross....	4,035	21,339	3,393	16,443
3496012	Lead.....	...do.....	1,992	9,429	2,665	11,222
3496013	Tin.....	...do.....	746	3,902	739	3,328
3496029	Other (including tin-coated and tin-lead alloy) and caps, spouts, etc. (except plastic).....	...do.....	xxx	1,025	xxx	3,136
3496000	Collapsible tubes, nsk.....	...do.....	xxx	1,477	xxx	
3497---	Metal foil and leaf, total.....		xxx	138,778	xxx	128,392
3497021	Laminated foil made from purchased aluminum foil <sup>8</sup> .....	1,000 lbs. metal content	<sup>19</sup> 16,225	<sup>19</sup> 17,497		
	Converted aluminum foil products--laminated and unlaminated (excluding specialty bags and lines) <sup>8</sup> :					
3497031	Wrappers and wraps.....	...do.....	<sup>19</sup> 30,551	<sup>19</sup> 39,116	165,678	120,844
3497033	Foil containers.....	...do.....	27,985	22,004		
3497039	All other converted foil products (including household and freezer foil).....	...do.....	<sup>19</sup> 46,460	<sup>19</sup> 41,279		
3497047	Other foil, including composition (combination of two or more metals) <sup>8</sup> ....	...do.....	(NA)	5,074		
	Leaf:					
3497051	Gold leaf.....	...do.....	xxx	4,713	xxx	4,322
3497057	Other leaf.....	...do.....	xxx	4,704	xxx	3,226
3497000	Metal foil and leaf, nsk.....	...do.....	xxx	4,341	xxx	
3498011	Fabricated pipe and fittings.....	...do.....	xxx	265,378	xxx	214,133
3499---	Fabricated metal products, nec.....	...do.....	xxx	443,638	xxx	364,769
3499011	Metal ammunition boxes and chests.....	...do.....	}	443,638	xxx	364,769
3499041	Fabricated metal products, nec.....	...do.....				

NA Not available. <sup>19</sup>Revised.<sup>1</sup>Data for nonferrous metal insect wire screening, other than copper, copper-base alloy and aluminum is included with "Other wire cloth and woven wire products."<sup>2</sup>Steel shipping packages, kegs, and pails are defined as single-walled shipping containers with a range of capacity from 1 to 12 gallons inclusive, constructed of steel sheet of 29 gauge and heavier. This definition does not include tin cans (packers' cans, general line cans, and beer cans),terneplate oil containers, fluid milk shipping containers, ice cream cans, gas cylinders, beer barrels, reconditioned barrels, and drums, or containers not commercially usable in the transportation of commodities.<sup>3</sup>Steel shipping barrels and drums are defined as single-walled cylindrical or bilged shipping containers, with a range of capacity from 12 to 132 gallons, constructed of steel. This definition does not include tin cans (packers' cans, general line cans, and beer cans),terneplate oil containers, high and low pressure gas steel cylinders, fluid milk shipping containers, ice cream cans, or containers not commercially usable in the transportation of commodities.<sup>4</sup>Represents 100 pound grease drums only.<sup>5</sup>Safes and chests are shown as fire-resistive or burglary-resistive, depending on the primary purpose for which they are built.<sup>6</sup>Locomotive and railroad car leaf springs are included with "Leaf springs for tractors, farm equipment, and other heavy equipment," product code 3493061.<sup>7</sup>Does not include pipe hangers and pipe supports, product code 3494471, for which separate data is not available.<sup>8</sup>More detailed data on converted aluminum foil are available in Current Industrial Reports (formerly identified as Facts for Industry) Series M34P, "Aluminum Foil Converted." This report contains data on poundages of aluminum foil converted by end use.<sup>9</sup>Excludes laminated foil produced in foil mills. Also, see product code 3352321, foil in lamination, on page 33D-18.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Noninsulated ferrous wire rope cable and strand (33151 and 34811):</u>		<u>Other wire springs (34813)--</u>	1958 <sup>1</sup>	<u>Wire cloth and other woven wire products (33157, 33573, and 34817)--</u>	1958 <sup>1</sup> 1954
United States, total:		Continued		Continued	
1958.....	163,386	South Atlantic.....	13,094	East North Central.....	57,667 45,516
1954.....	142,875	North Carolina.....	7,270	Ohio.....	14,299 13,229
	1958 <sup>1</sup>	East South Central.....	5,773	Indiana.....	1,238 1,586
New England.....	2,694	West South Central.....	3,738	Illinois.....	20,614 21,710
Middle Atlantic.....	72,294	West.....	19,691	Michigan.....	5,739 2,473
New York.....	2,587	California.....	18,281	Wisconsin.....	15,777 6,517
New Jersey.....	29,037			West North Central.....	8,343 (2)
Pennsylvania.....	40,670	<u>Fencing and fence gates (33156 and 34816):</u>	Value of shipments	South Atlantic.....	6,844 (2)
East North Central.....	22,430	United States, total:		Florida.....	1,322 (3)
Ohio.....	4,100	1958.....	103,309	East South Central.....	8,069 (2)
Illinois.....	8,022	1957.....	98,599	West South Central.....	1,392 (NA)
West North Central.....	19,911	1956.....	105,785	West.....	11,648 (2)
South Atlantic.....	9,188	1955.....	106,553	California.....	8,338 (2)
Pacific.....	12,217	1954.....	92,909		
		1953.....	92,280	<u>Other fabricated wire products (33159 and 34819):</u>	Value of shipments
<u>Precision mechanical springs (34812):</u>	Value of shipments	1952.....	99,333	United States, total:	
United States, total:		1951.....	114,081	1958.....	405,656
1958.....	108,984	1950.....	111,246	1957.....	407,537
1954.....	98,049	1947.....	63,297	1956.....	385,927
	1958 <sup>1</sup>			1955.....	345,236
New England.....	12,314	New England.....	4,463 1,182	1954.....	313,382
Massachusetts.....	2,845	Massachusetts.....	1,506 (2)	1953.....	370,380
Connecticut.....	9,469	Middle Atlantic.....	12,247 13,104	1952.....	346,150
Middle Atlantic.....	12,352	New York.....	3,697 2,525	1951.....	338,569
New York.....	3,593	Pennsylvania.....	8,347 10,438	1950.....	252,628
Pennsylvania.....	8,172	East North Central.....	35,761 39,873	1947.....	214,690
East North Central.....	74,637	Ohio.....	2,160 (2)		
Ohio.....	6,508	Illinois.....	25,143 28,638	1958 <sup>1</sup> 1954	
Illinois.....	35,855	West North Central.....	9,803 4,254	New England.....	22,854 28,333
Michigan.....	23,981	Missouri.....	2,302 1,742	Massachusetts.....	10,016 11,284
West North Central.....	2,473	South.....	25,212 24,324	Connecticut.....	11,812 15,560
Pacific.....	6,218	Texas.....	12,354 (2)	Middle Atlantic.....	138,115 110,447
		West.....	15,823 10,172	New York.....	45,598 40,199
<u>Other wire springs (34813):</u>	Value of shipments	California.....	11,906 (2)	New Jersey.....	11,007 10,780
United States, total:				Pennsylvania.....	81,510 59,467
1958.....	187,772	<u>Wire cloth and other woven wire products (33157, 33573, and 34817):</u>	Value of shipments	East North Central.....	131,393 97,057
1954.....	191,071	United States, total:		Ohio.....	22,819 16,315
	1958 <sup>1</sup>	1958.....	156,995	Indiana.....	26,068 14,433
New England.....	9,911	1957.....	153,259	Illinois.....	55,943 50,072
Massachusetts.....	5,060	1956.....	160,179	Michigan.....	22,286 14,385
Connecticut.....	4,851	1955.....	150,341	Wisconsin.....	4,277 1,851
Middle Atlantic.....	24,432	1954.....	131,175	West North Central.....	35,246 21,155
New York.....	6,014	1953.....	144,415	Minnesota.....	7,983 3,342
New Jersey.....	1,617	1952.....	127,126	Iowa.....	4,368 3,295
Pennsylvania.....	16,801	1951.....	155,255	Missouri.....	19,027 13,114
East North Central.....	102,869	1950.....	135,072	South Atlantic.....	14,639 6,986
Ohio.....	26,106	1947.....	90,792	Maryland.....	7,054 4,185
Illinois.....	40,501			Georgia.....	2,169 1,445
Michigan.....	28,549	New England.....	20,198 15,530	Florida.....	3,969 (3)
West North Central.....	8,264	Massachusetts.....	12,551 9,424	East South Central.....	15,220 15,494
Missouri.....	7,441	Middle Atlantic.....	42,834 44,526	Tennessee.....	5,873 (2)
		New York.....	8,730 6,693	Alabama.....	9,170 11,270
		New Jersey.....	12,780 9,956	West South Central.....	13,315 7,522
		Pennsylvania.....	21,324 27,876	Texas.....	7,312 5,867

See footnotes at end of table.



## FABRICATED METAL PRODUCTS, N.E.C.

34E-25

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Other fabricated wire products (33159 and 34819)--Continued</u>	1958 <sup>1</sup>	1954	<u>Steel springs (34930)-- Continued</u>	1958 <sup>1</sup>	1954	<u>Metal fittings and unions for piping systems (34942)--Continued</u>	1958 <sup>1</sup>	
Mountain.....	11,836	9,233	New England.....	8,145	7,818	South.....	64,562	
Pacific.....	23,038	17,125	Connecticut.....	7,734	( <sup>2</sup> )	Texas.....	14,433	
Washington.....	1,688	1,086	Middle Atlantic.....	32,191	34,108	West.....	16,719	
California.....	21,055	15,673	Pennsylvania.....	21,629	20,366	California.....	15,710	
<u>Steel shipping pails (1-12 gallon capacity) (34911):</u>	Value of shipments		East North Central.....	83,319	75,335	<u>Plumbing and heating valves and specialties, except plumbers' brass goods (34943):</u>	Value of shipments	
United States, total:			Indiana.....	16,750	15,859	United States, total:		
1958.....	80,229		Illinois.....	13,756	11,276	1958.....	87,110	
1954.....	54,771		Michigan.....	42,417	40,966	1957.....	98,936	
1953.....	53,087		West North Central.....	3,300	2,015	1956.....	101,426	
1952.....	57,268		South.....	1,007	(NA)	1954.....	94,035	
1951.....	70,038		West.....	5,181	( <sup>2</sup> )	1953.....	86,870	
1947.....	55,604		California.....	4,150	( <sup>2</sup> )	1952.....	82,498	
Northeast.....	28,626	( <sup>2</sup> )	<u>Metal valves for piping systems (except plumbing and heating valves) (34941):</u>	Value of shipments		1951.....	86,493	
New Jersey.....	7,011	( <sup>2</sup> )	United States, total:			1947.....	63,761	
Pennsylvania.....	16,573	( <sup>2</sup> )	1958.....	559,840		1958 <sup>1</sup>		1954
North Central.....	32,722	( <sup>2</sup> )	1954.....	420,305		New England.....	4,725	9,394
Ohio.....	10,348	8,428	1958 <sup>1</sup>		Massachusetts.....	( <sup>2</sup> )	5,598	
Illinois.....	18,326	( <sup>2</sup> )			Connecticut.....	2,456	( <sup>2</sup> )	
South.....	12,453	( <sup>2</sup> )	New England.....	75,718		Middle Atlantic.....	10,030	11,274
Texas.....	2,825	( <sup>2</sup> )	Massachusetts.....	47,240		New York.....	4,536	( <sup>2</sup> )
Pacific.....	6,428	5,115	Rhode Island.....	5,846		East North Central.....	49,807	57,546
California.....	6,428	5,115	Connecticut.....	22,632		Ohio.....	11,464	6,107
<u>Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels (34912):</u>	Value of shipments		Middle Atlantic.....	117,864		Indiana.....	7,443	5,095
United States, total:			New York.....	30,593		Illinois.....	20,184	27,437
1958.....	162,375		New Jersey.....	26,291		Michigan.....	5,392	10,859
1955.....	165,285		Pennsylvania.....	60,980		Wisconsin.....	5,324	8,047
1954.....	143,854		East North Central.....	209,041		West North Central.....	2,855	( <sup>2</sup> )
1953.....	151,446		Ohio.....	68,213		South.....	11,531	( <sup>2</sup> )
1952.....	146,893		Indiana.....	23,933		Pacific.....	8,162	4,937
1951.....	172,140		Illinois.....	99,206		California.....	8,162	4,937
1950.....	135,661		Michigan.....	10,393		<u>Other metal valves and fittings, except plumbers' brass goods and fittings (34944):</u>	Value of shipments	
1947.....	107,741		Wisconsin.....	7,296		United States, total.....	1958 <sup>1</sup>	
Middle Atlantic.....	41,887	34,323	West North Central.....	39,920				151,564
New York.....	3,928	5,838	South Atlantic.....	3,646		New England.....	11,243	
New Jersey.....	22,696	16,317	East South Central.....	31,192		Rhode Island.....	2,099	
Pennsylvania.....	15,263	12,167	West South Central.....	47,446		Middle Atlantic.....	25,146	
East North Central.....	45,862	48,343	Texas.....	39,527		New York.....	4,467	
Ohio.....	18,872	25,128	West.....	35,013		New Jersey.....	9,788	
Illinois.....	25,452	( <sup>2</sup> )	California.....	32,459		Pennsylvania.....	10,891	
West North Central.....	4,320	( <sup>2</sup> )	<u>Metal fittings and unions for piping systems (34942):</u>	Value of shipments		East North Central.....	71,650	
South.....	54,623	( <sup>2</sup> )	United States, total:			Ohio.....	13,636	
West Virginia.....	4,215	( <sup>2</sup> )	1958.....	363,951		Illinois.....	27,665	
Alabama.....	4,521	( <sup>2</sup> )	1954.....	304,425		Michigan.....	25,229	
Louisiana.....	17,776	10,776	1958 <sup>1</sup>		Wisconsin.....	4,126		
Texas.....	20,606	16,940			West North Central.....	12,290		
Pacific.....	14,785	16,213	New England.....	29,167		Missouri.....	6,590	
<u>Steel springs (34930):</u>	Value of shipments		Massachusetts.....	15,396		South.....	9,881	
United States, total:			Middle Atlantic.....	91,360		Oklahoma.....	4,147	
1958.....	133,143		New York.....	4,599		Texas.....	3,484	
1956.....	185,309		New Jersey.....	10,590		West.....	21,354	
1955.....	190,885		Pennsylvania.....	76,171		Oregon.....	1,623	
1954.....	129,593		North Central.....	162,143		California.....	16,154	
1947.....	118,510		Ohio.....	17,651				
			Indiana.....	23,547				
			Illinois.....	57,138				
			Michigan.....	22,923				
			Iowa.....	2,149				

See footnotes at end of table.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<b>Metal foil and leaf (34970):</b>		<b>Fabricated metal products, nec (34990):</b>		<b>Fabricated metal products, nec (34990)—Continued</b>	1958 <sup>1</sup>
United States, total:		United States, total:			
1958.....	138,778	1958.....	443,638	West North Central.....	13,774
1954.....	128,392	1956.....	491,529	Minnesota.....	6,690
	1958 <sup>1</sup>	1955.....	429,883	Iowa.....	1,719
		1954.....	364,769	Missouri.....	4,414
		1947.....	107,942		
New England.....	10,869		1958 <sup>1</sup>	South Atlantic.....	38,107
Massachusetts.....	2,745	New England.....	31,658	Maryland.....	16,999
Connecticut.....	8,097	Massachusetts.....	10,151	Virginia.....	1,658
		Rhode Island.....	3,654	West Virginia.....	7,660
Middle Atlantic.....	24,542	Connecticut.....	17,052	North Carolina.....	3,831
New York.....	9,509			Georgia.....	1,302
New Jersey.....	9,814	Middle Atlantic.....	116,764	Florida.....	6,598
Pennsylvania.....	5,219			East South Central.....	2,875
		New York.....	47,601	Kentucky.....	1,231
North Central.....	51,728	New Jersey.....	19,249	West South Central.....	4,559
Ohio.....	20,651	Pennsylvania.....	49,914	Oklahoma.....	1,172
Illinois.....	14,924			Texas.....	2,028
Missouri.....	3,472	East North Central.....	214,624	Mountain.....	2,729
				Colorado.....	1,373
South.....	31,612	Ohio.....	35,162	Arizona.....	1,102
Kentucky.....	26,855	Indiana.....	26,496		
		Illinois.....	119,119	Pacific.....	18,548
Pacific.....	20,027	Michigan.....	28,920	California.....	17,940
		Wisconsin.....	4,927		

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 34811, Massachusetts, Connecticut, Indiana, Michigan, Wisconsin, Missouri, Maryland, Virginia, Georgia, Tennessee, Texas, Washington, and California; 34812, Indiana, Wisconsin, Missouri, and California; 34813, Indiana, Maryland, Georgia, Kentucky, Tennessee, Mississippi, and Texas; 34816, Connecticut, Indiana, Michigan, Minnesota, Iowa, Maryland, Alabama, and Colorado; 34817, Connecticut, Minnesota, Missouri, Maryland, Georgia, Kentucky, Alabama, Texas, and Washington; 34819, Kansas, and Colorado; 34911, New York, Wisconsin, Kansas, Delaware, Alabama, and Louisiana; 34912, Missouri, Kansas, Maryland, Florida, Oklahoma, and California; 34930, New York, Ohio, and Missouri; 34941, Iowa, Missouri, Nebraska, Kansas, West Virginia, Kentucky, Tennessee, Alabama, Oklahoma, Colorado, and Oregon; 34942, Rhode Island, Connecticut, Wisconsin, Missouri, Delaware, Georgia, Kentucky, and Alabama; 34943, Massachusetts, New Jersey, Pennsylvania, Iowa, Delaware, and Texas; 34944, Massachusetts, Connecticut, Minnesota, Kansas, Georgia, and Colorado; 34970, Indiana, Wisconsin, Minnesota, Virginia, and California.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3481—FABRICATED WIRE PRODUCTS, NEC					
	Materials, parts, containers and supplies, total.....		xxx	373,917	xxx	315,067
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	63,264	11,632	46,561	6,062
331212	Sheet and strip.....	do.....	107,951	18,794	162,670	25,738
331213	Plates.....	do.....	1,874	337	(1)	(1)
331215	Structural shapes.....	do.....	9,106	1,899	4,400	738
331217	Wire and wire products.....	do.....	840,316	185,508	805,006	148,842
331219	All other carbon steel mill shapes and forms.....	do.....	32,742	6,558	129,826	16,022
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	13,703	2,907	9,110	1,940
331225	All other alloy steel mill shapes and forms.....	do.....	2,670	1,785	3,859	2,483
331231	Stainless steel mill shapes and forms.....	do.....	3,393	7,044	3,996	7,031
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 lbs....	1,050	514	20,015	10,584
363111	Insulated wire and cable.....	1,000 lbs. copper content	201	279		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs....	11,363	7,235		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	do.....	(NA)	512	22,592	11,592
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	11,447	6,432		
	Castings (rough and semifinished): <sup>2</sup>					
332311	Steel.....	Short tons....	3,817	1,493	3,363	1,229
336111	Aluminum and aluminum-base alloy.....	1,000 lbs....	1,141	564	1,876	1,243
970000	All other materials and components, parts, containers, and supplies consumed.....		xxx	78,109	xxx	73,603
973000	Materials, components, parts, containers and supplies, nsk.....		xxx	342,315	xxx	17,960
	INDUSTRY 3493—STEEL SPRINGS					
	Materials, parts, containers and supplies, total.....		xxx	58,306	xxx	62,488
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	54,165	8,369	82,761	10,115
331212	Sheet and strip.....	do.....	20,481	3,543	6,135	814
331217	Wire and wire products.....	do.....	4,915	2,548	8,654	3,596
331213	All other carbon steel mill shapes and forms.....	do.....	2,726	554	1,596	222
331215						
331219						
	Alloy steel:					
331221	Bars and bar shapes.....	do.....	168,422	29,008	256,181	35,314
331225	All other alloy steel mill shapes and forms.....	do.....				
331231	Stainless steel mill shapes and forms.....	do.....				
970000	All other materials, components, parts, containers and supplies.....		xxx	8,144	xxx	12,349
973000	Materials, parts, containers, etc., nsk.....		xxx	36,079	...	...

Code	Material	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)
	INDUSTRY 3491—METAL BARRELS, DRUMS AND PAILS			
	Materials, parts, containers and supplies, total.....		xxx	145,384
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons....	24,666	3,623
331212	Sheet and strip.....	do.....	727,141	105,755
331218	Tin plate, terneplate and black plate.....	do.....	14,683	2,160
331213	Plates.....	do.....	5,902	910
331215	Structural shapes.....	do.....	666	149
331217	Wire and wire products.....	do.....	7,071	1,418
331219	All other carbon steel mill shapes and forms.....	do.....	1,392	263
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	968	1,277
331225	All other alloy steel mill shapes and forms.....	do.....		
331231	Stainless steel mill shapes and forms.....	do.....		
970000	All other materials and components, parts, containers, and supplies consumed.....		xxx	27,070
973000	Materials, components, parts, containers, etc., nsk.....		xxx	32,759

See footnotes at end of table.

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3494—VALVES AND PIPE FITTINGS					
	Materials, parts, containers and supplies, total.....		xxx	440,047	xxx	367,223
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	56,358	11,240	58,206	9,985
331212	Sheet and strip.....	do.....	13,499	2,562	18,783	2,031
331213	Plates.....	do.....	25,882	4,229	34,812	3,675
331215	Structural shapes.....	do.....	2,974	695	15,079	2,976
331217	Wire and wire products.....	do.....	(NA)	528	840	202
331219	All other carbon steel mill shapes and forms.....	do.....	44,858	10,998	74,474	12,447
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	6,466	2,070	7,128	2,081
331225	All other alloy steel mill shapes and forms.....	do.....	5,001	2,834	9,710	2,997
331231	Stainless steel mill shapes and forms.....	do.....	10,617	12,985	8,849	9,106
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 lbs....	287	159	114,315	40,615
363111	Insulated wire and cable.....	1,000 lbs. copper content	582	486		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs....	108,948	37,104		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	do.....	1,150	655	12,412	5,199
335259	All other mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	7,565	4,020		
	Primary metals and scrap:					
331251	Pig iron.....	Short tons....	105,281	6,596	128,929	7,121
333111	Copper and copper-base alloy refinery shapes.....	do.....	42,431	21,605	45,897	24,368
	Scrap (purchased only):					
941011	Iron and steel.....	do.....	134,344	5,900	174,061	6,071
941021	Copper and copper-base alloy.....	do.....	24,204	11,845	14,832	8,174
	Castings (rough and semifinished): <sup>4</sup>					
332011	Iron (gray and malleable).....	do.....	124,832	40,218	88,330	24,654
332311	Steel.....	do.....	40,559	32,893	34,387	22,132
336121	Copper and copper-base alloy.....	1,000 lbs....	56,334	27,514	40,610	22,858
336111	Aluminum and aluminum-base alloy.....	do.....	5,166	4,155	2,916	2,240
339111	Iron and steel forgings.....	Short tons....	<sup>5</sup> 14,298	9,510	xxx	158,291
970000	All other materials and components, parts, containers, and supplies consumed.....	xxx	xxx	164,936	xxx	
973000	Materials, parts, containers, etc., nsk.....	xxx	xxx	<sup>3</sup> 24,310	...	

Code	Material	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)
	INDUSTRY 3496—COLLAPSIBLE TUBES			
	Materials, parts, containers and supplies, total.....		xxx	15,186
	Aluminum and aluminum-base alloy refinery shapes (pig, ingot, shot, slugs, etc.):			
333421	Unalloyed.....	Short tons.....	4,903	4,422
333423	Alloyed.....	do.....	320	297
970000	All other materials and components, parts, containers, and supplies consumed.....		xxx	6,821
973000	Materials, parts, containers, etc., nsk.....		xxx	<sup>3</sup> 3,646
	INDUSTRY 3497—METAL FOIL AND LEAF			
	Materials, parts, containers and supplies, total.....		xxx	51,356
	Aluminum and aluminum-base alloy mill shapes and forms:			
335213	Sheet and plate (except foil but including foil stock).....	1,000 lbs.....	17,154	6,853
335215	Plain foil <sup>6</sup> .....	do.....	26,402	15,819
335217	Laminated foil <sup>6</sup> .....	1,000 lbs. metal content.....	1,733	942
970000	All other materials and components, parts, containers, and supplies consumed.....		xxx	23,938
973000	Materials, parts, etc., nsk.....		xxx	<sup>3</sup> 3,804

NA Not available.

<sup>1</sup>Carbon steel plates are included with "all other carbon steel mill shapes and forms."<sup>2</sup>Does not include castings produced and consumed in the same establishment.<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, (b) total cost of materials reported for establishments which failed to report the costs of individual materials on "standard forms," and (c) discrepancies between total cost of materials and detailed materials on the reports for other establishments.<sup>4</sup>For 1958 data are not available for castings produced and consumed in the same establishment except for copper and copper-base alloy castings which totaled 61,231 thousand pounds. For 1954, the tonnages of castings produced and consumed were as follows: Iron, 235,715 short tons; steel, 13,735 short tons; copper and copper-base alloy, 119,230 thousand pounds; aluminum and aluminum-base alloy, 13,016 thousand pounds.<sup>5</sup>In addition, 3,934 short tons were produced and consumed in the same establishment.<sup>6</sup>Data on total consumption of aluminum foil are available, by end-use, in Current Industrial Reports (previously identified as Facts for Industry) Series M34P, Aluminum Foil Converted. The data in the Current Industrial Report include consumption by all establishments such as foil mills, foil converters, and others including food processing and other establishments converting foil for purposes of packaging a product. Data in this report are limited to establishments classified in the metal foil and leaf industry.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3481	FABRICATED WIRE PRODUCTS, NEC (entire industry).....	1,463	55,476	261,027	44,125	86,278	184,432	439,940	425,981	874,923	18,105
	Establishments with:										
	90% or more specialization.....	1,265	41,467	192,292	33,216	64,653	136,883	329,802	329,828	668,445	13,557
	75-89% specialization.....	80	5,097	24,678	4,096	8,526	17,187	41,737	41,104	83,322	1,218
34811	Noninsulated ferrous wire, rope, cable, etc., not made by wire drawers (primary product class of estab.)..	35	2,539	13,401	1,782	3,470	8,577	31,499	37,373	70,480	768
	Establishments with:										
	90% or more specialization....	27	1,731	9,118	1,184	2,319	5,573	20,312	35,190	47,169	550
34812	Precision mechanical springs (primary product class of estab.)..	118	8,749	45,074	6,881	14,125	31,376	63,911	48,300	112,351	2,513
	Establishments with:										
	90% or more specialization....	80	4,178	21,272	3,314	6,877	14,379	29,938	21,781	51,816	1,073
	75-89% specialization.....	12	995	4,765	797	1,596	3,550	7,075	6,766	13,934	( <sup>1</sup> )
34813	Other wire springs (primary product class of estab.).....	205	13,022	58,343	10,999	20,708	44,311	92,817	85,226	180,205	2,572
	Establishments with:										
	90% or more specialization....	167	9,666	43,495	8,218	15,642	33,622	68,884	61,672	132,175	1,888
	75-89% specialization.....	15	1,314	5,863	1,105	2,209	4,326	10,421	11,293	21,771	( <sup>1</sup> )
34816	Fencing and fence gates, not produced by wire drawers (primary product class of estab.).....	101	2,801	14,202	1,976	3,669	8,913	25,214	39,003	65,157	1,148
	Establishments with:										
	90% or more specialization....	76	1,554	7,401	1,092	2,182	4,686	18,175	28,348	46,224	510
	75-89% specialization.....	16	1,044	5,658	734	1,181	3,508	5,228	9,190	15,706	(D)
34817	Wire cloth and other woven wire products, not produced by wire drawers (primary product class of estab.).....	136	8,075	42,913	6,154	12,512	29,998	70,941	62,132	136,260	4,314
	Establishments with:										
	90% or more specialization....	106	4,835	24,718	3,852	7,767	17,661	43,044	37,657	82,712	3,146
	75-89% specialization.....	12	730	3,965	594	1,333	3,038	5,484	5,794	11,746	( <sup>1</sup> )
34819	Other fabricated wire products not produced by wire drawers (primary product class of estab.)..	635	17,306	75,914	13,947	27,642	53,399	135,425	132,581	269,041	5,702
	Establishments with:										
	90% or more specialization....	526	12,588	54,030	10,150	20,008	38,496	97,859	90,917	190,098	4,080
	75-89% specialization.....	40	1,874	9,120	1,499	3,099	6,018	17,024	22,032	38,856	647
3491	METAL BARRELS, DRUMS AND PAIRS (entire industry).....	125	9,640	53,005	7,657	15,058	38,065	94,548	154,738	250,256	4,583
	Establishments with:										
	90% or more specialization.....	105	6,784	37,437	5,427	10,402	27,078	69,921	122,004	192,115	2,924
	75-89% specialization.....	4	898	5,589	748	1,582	4,089	10,306	13,752	24,196	1,280
34911	Steel shipping pails (1-12 gallon capacity) (primary product class of estab.).....	23	2,192	11,062	1,752	3,486	7,773	20,321	25,763	46,241	845
	Establishments with:										
	90% or more specialization....	13	713	2,904	544	828	1,710	6,167	8,411	14,691	( <sup>1</sup> )
	75-89% specialization.....	3	509	3,110	423	951	2,294	6,083	6,787	12,875	581
34912	Steel shipping barrels and drums over 12 gallon capacity, except beer barrels (primary product class of estab.).....	77	6,450	37,297	5,133	10,024	26,968	67,587	118,916	186,709	3,444
	Establishments with:										
	90% or more specialization....	47	2,253	12,319	1,812	3,561	8,972	26,428	54,666	81,000	916
	75-89% specialization.....	12	1,219	6,903	984	1,894	5,107	11,248	19,128	30,441	1,007
3492	SAFES AND VAULTS (entire industry).....	33	3,495	15,843	2,323	4,417	10,722	39,537	18,514	58,790	683
	Establishments with:										
	90% or more specialization.....	29	3,189	14,473	2,069	3,818	9,729	37,345	15,644	53,611	635
3493	STEEL SPRINGS (entire industry).....	90	6,758	35,607	5,242	9,978	25,499	54,135	65,639	120,525	1,721
	Establishments with:										
	90% or more specialization.....	69	3,137	16,720	2,445	4,637	11,938	26,362	42,031	68,214	874
	75-89% specialization.....	6	837	4,566	612	1,188	3,282	6,882	8,145	14,902	( <sup>1</sup> )

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 8.-General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958-Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3494	VALVES AND PIPE FITTINGS (entire industry).....	588	74,994	400,331	54,371	106,186	262,395	716,056	506,443	1,241,535	32,748
	Establishments with:										
	90% or more specialization.....	437	44,712	235,832	32,833	64,922	154,979	449,754	308,435	764,382	19,418
	75-89% specialization.....	37	14,338	77,594	10,667	19,988	53,779	127,923	84,113	218,137	8,124
34941	Metal valves for piping systems (except plumbing and heating valves) (primary product class of estab.).....	142	39,049	209,140	28,221	55,017	137,852	369,269	223,875	603,457	17,731
	Establishments with:										
	90% or more specialization....	83	19,370	100,969	13,691	27,634	64,999	197,422	118,354	321,337	9,239
	75-89% specialization.....	17	4,042	20,716	3,095	5,791	14,848	35,143	20,060	56,659	1,232
34942	Metal fittings and unions for piping systems (primary product class of estab.).....	110	21,147	112,565	15,573	30,260	74,915	197,904	172,852	379,788	9,300
	Establishments with:										
	90% or more specialization....	66	7,247	37,793	5,564	11,012	25,790	70,291	69,841	139,936	3,412
	75-89% specialization.....	19	4,609	24,203	3,371	6,680	16,399	54,714	41,472	98,222	3,167
34943	Plumbing and heating valves and specialties (except plumbers' brass goods) (primary product class of estab.).....	43	3,963	19,702	3,023	5,994	13,310	44,201	28,034	71,533	1,609
	Establishments with:										
	90% or more specialization....	24	1,874	9,854	1,512	2,969	6,864	21,018	16,154	37,202	634
	75-89% specialization.....	6	499	1,929	373	791	1,435	3,345	1,773	5,132	( <sup>1</sup> )
34944	Other metal valves and fittings, except plumbers' brass goods and fittings (primary product class of estab.).....	126	9,074	49,983	6,168	12,302	29,603	87,047	67,587	155,658	3,235
	Establishments with:										
	90% or more specialization....	86	4,413	24,980	3,057	6,254	14,933	42,766	33,703	76,742	1,580
	75-89% specialization.....	11	609	3,383	435	853	1,852	6,848	3,495	10,286	( <sup>1</sup> )
3497	METAL FOIL AND LEAF (entire industry)...	65	3,195	17,105	2,277	4,701	10,874	35,170	53,897	88,871	2,855
	Establishments with:										
	90% or more specialization.....	53	1,715	9,029	1,203	2,507	5,652	20,202	33,094	53,096	1,982
	75-89% specialization.....	3	280	1,595	215	462	1,027	3,207	3,788	6,999	(D)
3498	FABRICATED PIPE AND FITTINGS (entire industry).....	286	15,214	84,015	11,139	22,238	55,347	155,621	174,661	329,979	4,103
	Establishments with:										
	90% or more specialization.....	248	11,718	64,229	8,837	17,626	43,143	115,899	133,337	247,199	3,415
	75-89% specialization.....	12	880	5,045	506	1,063	2,515	10,164	10,797	20,602	( <sup>1</sup> )
3499	FABRICATED METAL PRODUCTS, NEC (entire industry).....	974	20,200	93,199	15,600	29,845	62,747	180,132	160,374	340,096	11,362
	Establishments with:										
	90% or more specialization.....	849	12,818	57,159	9,975	18,537	39,346	117,088	105,741	222,591	8,602
	75-89% specialization.....	40	1,925	8,906	1,488	3,002	5,995	16,212	14,071	30,561	859

<sup>1</sup>Less than \$500 thousand.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3481—FABRICATED WIRE PRODUCTS, NEC								
Galvanizing and other hot dip coating.....	43	23	14	6	341	52	145	144
Heat treating and annealing.....	126	98	21	7	521	176	185	160
Automatic screw machine department.....	8	4	3	1	53	7	(D)	(D)
Machine shop.....	198	106	73	19	11,610	238	676	10,696
Tool and die shop.....	148	101	40	7	729	220	352	157
Plate or structural fabrication.....	14	4	7	3	160	7	68	85
Stamping, blanking, and forming.....	250	98	96	56	3,876	231	914	2,731
Painting, lacquering, and enameling.....	218	179	30	9	1,281	353	256	672
INDUSTRY 3491—METAL BARRELS, DRUMS AND PAILS								
Galvanizing and other hot dip coating.....	9	...	8	1	103	...	(D)	(D)
Machine shop.....	49	24	18	7	425	49	180	196
Tool and die shop.....	5	4	1	...	13	(D)	(D)	...
Plate or structural fabrication.....	11	...	5	6	434	...	59	375
Stamping, blanking, and forming.....	71	10	22	39	2,497	34	202	2,261
Painting, lacquering, and enameling.....	76	42	26	8	597	90	257	250
INDUSTRY 3492—SAFES AND VAULTS								
Machine shop.....	10	5	2	3	210	(D)	(D)	185
Plate or structural fabrication.....	8	3	4	1	85	8	(D)	(D)
Stamping, blanking, and forming.....	9	5	1	3	156	(D)	(D)	135
Painting, lacquering and enameling.....	11	8	...	3	94	9	...	85
INDUSTRY 3493—STEEL SPRINGS								
Ferrous foundry.....	5	...	2	3	282	...	(D)	(D)
Forging.....	14	4	3	7	293	10	42	241
Heat treating and annealing.....	38	14	15	9	432	21	144	267
Machine shop.....	25	13	10	2	215	30	(D)	(D)
Tool and die shop.....	8	6	2	...	39	(D)	(D)	...
Stamping, blanking, and forming.....	26	5	12	9	576	11	115	450
Painting, lacquering, and enameling.....	23	21	2	...	50	(D)	(D)	...
INDUSTRY 3494—VALVES AND PIPE FITTINGS								
Ferrous foundry.....	38	1	4	33	5,277	(D)	(D)	5,230
Nonferrous foundry (except die casting).....	78	10	18	50	3,879	31	189	3,659
Forging.....	21	9	5	7	456	25	44	387
Electroplating.....	24	12	10	2	152	24	(D)	(D)
Galvanizing and other hot dip coating.....	19	9	6	4	173	23	56	94
Heat treating and annealing.....	66	48	16	2	291	94	(D)	(D)
Automatic screw machine department.....	107	48	35	24	2,260	105	337	1,818
Machine shop.....	317	17	108	192	19,078	48	1,318	17,712
Tool and die shop.....	143	59	55	29	1,864	139	494	1,231
Foundry pattern shop.....	93	53	31	9	928	102	300	526
Plate or structural fabrication.....	38	10	17	11	877	18	176	683
Stamping, blanking, and forming.....	60	32	19	9	807	61	186	560
Painting, lacquering, and enameling.....	137	125	11	1	319	207	(D)	(D)
INDUSTRY 3496—COLLAPSIBLE TUBES								
Machine shop.....	16	4	10	2	158	8	(D)	(D)
Stamping, blanking, and forming.....	16	5	7	4	671	13	64	594
Painting, lacquering, and enameling.....	15	...	5	10	618	...	58	560
INDUSTRY 3497—METAL FOIL AND LEAF								
Machine shop.....	10	4	5	1	76	8	(D)	(D)
Stamping, blanking, and forming.....	6	2	4	...	194	(D)	(D)	...
Painting, lacquering, and enameling.....	6	4	2	...	21	(D)	(D)	...

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3481	3491	3492	3493	3494	3496	3497
Total number of establishments in the industry.....	1,463	125	33	90	588	22	65
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	1,148	111	31	77	535	18	48
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	80-85	90-95	75-80	75-80	over 95	90-95	80-85

D Withheld to avoid disclosing figures for individual companies.





## Major Group 35—Machinery, Except Electrical

This major group includes establishments primarily engaged in producing a wide variety of machinery and equipment items classified in four-digit industries covered by the following broad industry groupings of the Standard Industrial Classification Major Group 35, Machinery, Except Electrical.

### S.I.C. Code and Title (1957 Edition)

- 351—Engines and Turbines
- 352—Farm Machinery and Equipment
- 353—Construction and Mining Equipment
- 354—Metalworking Machinery
- 355—Special-Industry Machinery
- 356—General Industrial Machinery
- 357—Office Machines, N.E.C.
- 358—Service-Industry Machines
- 359—Machine Shops

The industries included in this major group encompass the whole range of industrial machinery, other than electrical. To a considerable extent the products fall into the producers heavy equipment category, are frequently of a complex character, and are produced both to individual order and as standard items. Industries in groups 351 to 358 are defined in terms of end products, and the parts, attachments and accessories for these items are included in the industry of this end product unless specifically classified elsewhere in the Standard Industrial Classification. The volume of shipments of machinery parts and accessories in some industries constitutes a significant portion of total shipments. These parts producers are generally smaller establishments but there are a large number of them. Group 359, Machine Shops includes plants producing a broad variety of miscellaneous parts made by job machine shops.

Group 352 includes farm machines and wheel-tractors, while Group 353 comprises all types of earth moving equipment, including tracklaying tractors and contractors' off-highway type tractors; mining machinery; and materials-handling equipment. The end products of plants in Groups 351-356 are usually capital equipment, bought and used not only by manufacturing companies but also at mines, farms, and in transportation, construction and commerce. Groups 357 and 358 include products for commercial and service use such as measuring and dispensing pumps, office and store machines, and commercial refrigeration equipment.

Plants primarily engaged in rebuilding machinery or equipment on a factory basis were formerly included in

this major group. However, such rebuilding activities are now classified according to the original industry classification of the product being rebuilt. Plants primarily rebuilding automotive parts are included in Major Group 37. Plants primarily rebuilding machine tools, metalworking machinery, and office and store machines are included in the industry of the plants producing the original equipment. Reference to Table 6A for each industry will show the industries in which rebuilding activities are included with the volume of such rebuilding.

The individual establishments within Major Group 35 frequently produce products falling into two or more SIC 4-digit industries. In fact, many of the larger establishments produce a significant amount of products secondary to the industry in which they are classified. However, these secondary products tend to be similar to the primary products of the establishment in the material used in their manufacture, type of labor employed to produce them, and nature of the processes involved in the production line.

Establishments in this group of industries typically maintain machine shops, tool and die rooms, and heat treating facilities. Frequently the establishment, particularly if it is of some size, will also operate a pattern shop, screw machine department, and stamping facility. With greater variation depending upon the particular 4-digit industry, the physical plant may contain a foundry, forge shop, plate fabrication, electroplating, galvanizing, or other metal processing department. Data on the number of establishments engaged in a selected number of the more important of these operations and the number of employees working in the operations are shown in Table 9 for each of the 4-digit industries in this major group. The metalworking operations shown in that table do not represent, of course, a complete list or, for many metal fabricating industries, even those which are most important. There are a number of significant activities such as assembly, sub-assembly, finishing, etc., which were covered only for selected industries.

Although the production processes in this area adhere to a general pattern of specified metalworking and metal fabricating operations, there is a substantial variation in the number and types of processes performed by an individual establishment as well as from industry to industry. Within a single 4-digit industry, certain establishments may be exclusively engaged in assembling component parts produced by other plants. Another group of plants may purchase rough castings or mill shapes and carry out the entire fabricating of the metal until it emerges as a finished product. In other instances, the casting of the metal will be performed by the establishment itself.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1-GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees <sup>1</sup>		Production workers			Value added by manu- facture, adjusted <sup>3</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	7,360	1,385,494	7,574,591	949,132	1,852,822	4,646,579	12,391,190	676,419
Administrative and auxiliary establishments.....	(NA)	xxx	37,249	270,930	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	29,839	7,360	1,348,245	7,303,661	949,132	1,852,822	4,646,579	12,391,190	676,419
Operating manufacturing establishments (based on old SIC).....	31,160	8,048	1,545,929	8,361,202	1,095,855	2,140,145	5,361,391	14,405,884	747,479
Operating manufacturing establishments:									
1957 <sup>4</sup> .....	(NA)	(NA)	1,706,530	9,045,579	1,265,102	2,571,228	6,058,073	15,971,932	991,203
1956 <sup>4</sup> .....	(NA)	(NA)	1,716,802	8,897,214	1,308,154	2,716,843	6,155,787	16,176,102	887,580
1955 <sup>4</sup> .....	(NA)	(NA)	1,603,977	7,811,930	1,222,441	2,512,534	5,437,889	13,752,931	653,094
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	1,573,851	7,389,954	1,170,629	2,368,274	4,977,213	12,177,018	713,556
Administrative and auxiliary establishments.....	(NA)	(NA)	33,105	203,721	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	25,600	7,521	1,540,746	7,186,233	1,170,629	2,368,274	4,977,213	12,333,350	713,556
Operating manufacturing establishments:									
1953 <sup>4</sup> .....	(NA)	(NA)	1,691,235	7,875,812	1,307,312	2,743,740	5,685,694	13,380,729	754,739
1952 <sup>4</sup> .....	(NA)	(NA)	1,650,772	7,379,879	1,283,664	2,732,879	5,351,952	12,807,480	(NA)
1951 <sup>4</sup> .....	18,734	(NA)	1,603,987	6,729,242	1,260,244	2,693,220	4,914,128	11,218,656	631,373
1950 <sup>4</sup> .....	17,909	(NA)	1,367,882	5,063,088	1,064,266	2,182,848	3,609,065	8,764,652	337,212
1949 <sup>4</sup> .....	(NA)	(NA)	1,295,091	4,559,083	1,004,938	2,012,901	3,175,423	7,688,711	350,554
1947.....	17,910	(NA)	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970	517,589
1939 <sup>5</sup> .....	8,860	(NA)	(NA)	(NA)	536,082	(NA)	769,569	2,036,965	(NA)
1937 <sup>6</sup> .....	7,327	(NA)	(NA)	(NA)	653,461	(NA)	969,679	2,365,788	(NA)

NA Not available.

<sup>1</sup>The figures for 1939 through 1958 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for 1937 is not known.<sup>2</sup>Data for number of employees at manufacturers' central administrative offices and auxiliary units are shown in this table for 1954 and 1958 and for 1949-1953 in Annual Survey of Manufactures volumes. Data for such employees are not available for 1955-1957 and for the years prior to 1949.<sup>3</sup>For 1954-1958 represents adjusted value added. For 1953 and earlier years represents unadjusted value added. See text for more detailed explanation.<sup>4</sup>The figures for 1949-1953 and for 1955-1957, represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.<sup>5</sup>The figures for 1939-1958 are not entirely comparable with those for 1937 because the 1937 figures (a) include data for establishments primarily engaged in the manufacture of thermostats and gauges, heat treating of steel, machine knives, and tackle blocks, and (b) exclude data for establishments primarily engaged in the manufacture of vacuum cleaners, turbo-generators and water-wheel generator sets, hair clippers for animal use, brooders, nonferrous bearings, certain industrial furnaces and ovens, time-stamps and time-recording machines, dictating machines, certain valves and fittings (except plumbers') and caulking guns. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$1,989.6 million.<sup>6</sup>The figures prior to 1937 are not sufficiently comparable to those for later years to be shown in this table principally because they include data for establishments primarily engaged in the manufacture of aircraft engines and in machine shop repairs.



# MACHINERY, EXCEPT ELECTRICAL

35-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954<sup>1</sup>

(For explanation of column captions see Introduction)

Region and State	1958							1954		
	Establishments, number		All employees		Production workers			Value added by manufac- ture, new	Capital expendi- tures, new	Value added by manufac- ture, new
	Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	All employees, number
MAJOR GROUP 35 AND 36										
MACHINERY, EXCEPT ELEC- TRICAL AND ELECTRICAL										
MACHINERY, TOTAL <sup>1</sup> . . . . .	37 958	11 159	2 470 537	129 096 646	17 577 753	34 423 359	8 156 325	22 786 559	1 126 345	2 441 736
NEW ENGLAND. . . . .	3 450	1 084	268 615	1 307 883	193 988	382 032	835 028	2 232 736	102 392	288 442
MAINE. . . . .	75	17	3 724	17 402	2 906	6 308	12 325	19 059	(D)	4 300
NEW HAMPSHIRE. . . . .	126	45	14 873	64 014	11 429	23 437	43 339	115 273	5 610	12 940
VERMONT. . . . .	62	29	7 531	35 620	5 389	10 170	22 395	50 170	(D)	8 859
MASSACHUSETTS. . . . .	1 680	557	139 618	686 103	99 004	196 916	428 257	1 166 243	48 322	144 988
RHODE ISLAND. . . . .	281	80	11 714	51 569	8 676	16 434	32 539	86 059	3 354	13 933
CONNECTICUT. . . . .	1 226	356	91 155	453 175	66 584	128 767	296 173	795 939	39 994	103 402
MIDDLE ATLANTIC. . . . .	8 707	2 719	651 387	3 402 298	449 145	880 478	2 076 745	5 781 183	251 727	661 422
NEW YORK. . . . .	4 142	1 203	277 787	1 454 447	187 498	368 350	858 702	2 439 199	107 850	270 371
NEW JERSEY. . . . .	2 305	678	165 213	871 814	114 501	225 805	533 383	1 394 944	63 172	168 633
PENNSYLVANIA. . . . .	2 260	838	208 387	1 076 037	147 146	286 313	684 660	1 947 040	80 705	222 414
EAST NORTH CENTRAL. . . . .	12 224	3 963	987 552	5 330 539	712 517	1 383 530	3 457 084	9 423 895	457 807	1 058 235
OHIO. . . . .	3 067	1 046	265 583	1 448 580	194 622	375 671	956 288	2 553 750	137 294	299 722
INDIANA. . . . .	1 129	371	121 928	622 598	91 649	176 610	421 444	1 120 504	58 433	131 177
ILLINOIS. . . . .	3 436	1 245	326 702	1 684 292	230 765	446 072	1 055 142	3 178 587	146 944	327 115
MICHIGAN. . . . .	3 356	887	151 601	916 558	111 432	219 007	613 880	1 446 644	67 595	178 831
WISCONSIN. . . . .	1 236	414	121 730	658 602	84 049	164 170	410 330	1 124 410	47 541	121 390
WEST NORTH CENTRAL. . . . .	2 390	748	144 560	712 746	103 787	204 600	455 960	1 305 277	86 533	130 384
MINNESOTA. . . . .	662	224	38 675	198 372	26 092	52 623	117 524	344 684	16 890	30 030
IOWA. . . . .	454	159	46 039	235 399	34 586	68 419	34 586	465 160	(D)	40 930
MISSOURI. . . . .	747	228	42 492	202 279	30 540	59 100	129 079	357 483	19 095	45 041
NORTH DAKOTA. . . . .	33	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	234
SOUTH DAKOTA. . . . .	22	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	289
NEBRASKA. . . . .	157	42	6 601	28 183	4 991	9 933	18 711	50 384	(D)	5 420
KANSAS. . . . .	315	84	9 869	44 883	6 862	13 355	28 563	79 114	4 594	8 538
SOUTH ATLANTIC. . . . .	1 922	566	96 048	453 451	67 885	133 177	271 714	875 984	41 336	71 409
DELAWARE. . . . .	48	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)
MARYLAND. . . . .	287	93	27 235	151 309	17 123	33 795	81 115	257 387	10 529	24 300
DISTRICT OF COLUMBIA. . . . .	22	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	397
VIRGINIA. . . . .	178	54	9 737	43 834	6 248	12 386	22 849	98 468	2 969	(1)
WEST VIRGINIA. . . . .	128	39	7 267	36 196	5 937	11 331	27 188	82 076	2 646	7 660
NORTH CAROLINA. . . . .	372	127	22 967	95 546	16 813	59 219	32 985	211 659	10 173	17 231
SOUTH CAROLINA. . . . .	121	41	5 485	20 074	4 409	8 935	14 206	36 255	2 486	(1)
GEORGIA. . . . .	290	107	11 780	52 892	8 797	17 121	33 428	108 284	3 671	9 331
FLORIDA. . . . .	476	87	9 044	39 321	6 797	13 285	25 473	65 283	7 483	6 720
EAST SOUTH CENTRAL. . . . .	791	250	61 779	287 733	47 927	93 113	193 961	668 216	33 755	42 524
KENTUCKY. . . . .	223	75	29 812	148 648	23 198	44 546	101 576	370 897	18 049	20 893
TENNESSEE. . . . .	278	92	18 721	84 361	14 307	28 075	54 799	188 936	10 280	11 905
ALABAMA. . . . .	185	49	8 153	35 093	6 333	12 148	24 191	62 682	3 323	6 400
MISSISSIPPI. . . . .	105	34	5 093	19 631	4 089	8 344	13 395	45 701	2 103	3 390
WEST SOUTH CENTRAL. . . . .	2 025	443	66 369	324 719	47 644	95 958	203 657	636 466	38 655	50 664
ARKANSAS. . . . .	120	21	4 193	15 667	3 538	6 875	11 688	40 386	2 268	2 252
LOUISIANA. . . . .	201	36	3 240	15 211	2 536	4 993	10 516	26 427	1 811	2 750
OKLAHOMA. . . . .	394	88	11 495	55 398	8 257	15 938	35 591	96 278	5 739	11 119
TEXAS. . . . .	1 310	298	47 441	238 443	33 313	68 152	145 862	473 375	28 837	34 600
MOUNTAIN. . . . .	624	112	16 978	88 727	12 083	24 021	56 875	154 445	12 722	9 018
MONTANA. . . . .	36	..	(D)	(D)	(D)	(D)	(D)	(D)	(D)	140
IDAHO. . . . .	59	9	845	6 000	684	1 391	4 582	8 399	523	(1)
WYOMING. . . . .	20	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)
COLORADO. . . . .	214	51	6 585	32 158	4 897	9 553	21 434	66 680	4 539	5 408
NEW MEXICO. . . . .	66	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)
ARIZONA. . . . .	146	24	5 360	31 072	3 513	7 407	17 721	38 820	4 790	1 337
UTAH. . . . .	68	16	2 851	13 838	1 952	3 745	9 034	30 641	1 860	1 600
NEVADA. . . . .	15	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)
PACIFIC. . . . .	5 825	1 274	177 249	1 001 550	122 777	245 420	605 301	1 708 357	101 418	129 641
WASHINGTON. . . . .	382	70	6 507	35 638	4 790	9 280	24 966	65 069	3 382	6 167
OREGON. . . . .	336	54	6 529	36 300	4 866	9 359	24 476	67 350	6 428	4 718
CALIFORNIA. . . . .	5 107	1 150	164 213	929 612	113 121	226 781	555 859	1 575 938	91 608	118 753

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
35	MACHINERY, EXCEPT ELECTRICAL, TOTAL.	29 839	7 360	1 348 245	7 303 661	949 132	1 852 822	4 646 579	12 391 190	676 419	(*)	(*)
	NEW ENGLAND . . . . .	2 695	696	150 126	765 380	107 214	209 716	494 251	1 226 859	61 660	(*)	(*)
	MAINE . . . . .	67	11	2 862	14 497	2 198	4 945	10 180	13 531	937	(*)	(*)
	NEW HAMPSHIRE . . . . .	91	22	7 147	32 607	5 121	10 427	20 947	59 727	3 354	(*)	(*)
	VERMONT . . . . .	54	24	6 134	29 538	4 302	8 027	18 413	41 155	1 768	(*)	(*)
	MASSACHUSETTS . . . . .	1 266	359	66 266	346 693	45 838	91 095	217 412	558 375	21 973	(*)	(*)
	RHODE ISLAND . . . . .	244	60	8 249	39 344	5 770	11 056	23 656	60 989	2 679	(*)	(*)
	CONNECTICUT . . . . .	973	220	59 468	302 701	43 985	84 166	203 643	493 082	30 949	(*)	(*)
	MIDDLE ATLANTIC . . . . .	6 036	1 481	308 767	1 665 039	209 023	410 226	1 025 750	2 719 590	133 056	(*)	(*)
	NEW YORK . . . . .	2 690	590	139 103	753 506	91 465	179 518	448 619	1 180 700	70 081	(*)	(*)
	NEW JERSEY . . . . .	1 610	359	57 517	315 161	38 892	77 926	192 907	519 371	20 898	(*)	(*)
	PENNSYLVANIA . . . . .	1 736	532	112 147	596 372	78 666	152 772	384 224	1 019 519	42 077	(*)	(*)
	EAST NORTH CENTRAL . . . . .	10 168	2 857	573 743	3 237 328	409 900	792 813	2 099 329	5 532 336	297 376	(*)	(*)
	OHIO . . . . .	2 590	769	157 461	878 004	113 584	217 512	572 223	1 410 508	82 601	(*)	(*)
	INDIANA . . . . .	939	253	45 954	245 576	32 636	63 662	158 179	439 517	33 586	(*)	(*)
	ILLINOIS . . . . .	2 532	766	164 447	895 565	116 272	222 626	568 692	1 723 164	85 521	(*)	(*)
	MICHIGAN . . . . .	3 053	761	124 422	772 377	91 647	179 894	520 827	1 192 827	60 699	(*)	(*)
	WISCONSIN . . . . .	1 054	308	81 459	445 806	55 761	109 119	279 408	766 320	34 969	(*)	(*)
	WEST NORTH CENTRAL . . . . .	2 006	553	92 444	473 688	64 595	127 635	299 154	842 988	48 094	(*)	(*)
	MINNESOTA . . . . .	557	171	27 888	147 792	17 881	36 305	83 212	252 576	14 427	(*)	(*)
	IOWA . . . . .	384	123	31 274	165 638	23 819	46 580	115 405	301 412	13 582	(*)	(*)
	MISSOURI . . . . .	594	147	20 775	103 709	14 192	27 483	64 184	185 897	14 107	(*)	(*)
	NORTH DAKOTA . . . . .	32	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA . . . . .	20	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA . . . . .	134	32	3 252	13 819	2 368	4 765	9 362	27 588	1 211	(*)	(*)
	KANSAS . . . . .	285	70	8 412	39 130	5 657	11 037	24 325	67 823	4 129	(*)	(*)
	SOUTH ATLANTIC . . . . .	1 565	407	45 249	203 869	33 462	65 010	131 254	363 317	18 838	(*)	(*)
	DELAWARE . . . . .	43	13	2 143	12 545	1 458	2 795	7 064	12 201	967	(*)	(*)
	MARYLAND . . . . .	210	58	10 600	54 187	7 202	14 201	32 863	105 275	4 915	(*)	(*)
	DISTRICT OF COLUMBIA . . . . .	10	1	117	663	90	175	478	1 175	79	(*)	(*)
	VIRGINIA . . . . .	152	38	3 777	15 887	2 835	5 376	10 792	28 649	1 744	(*)	(*)
	WEST VIRGINIA . . . . .	107	29	3 751	19 172	2 919	5 276	13 578	28 852	955	(*)	(*)
	NORTH CAROLINA . . . . .	322	93	9 121	35 925	6 904	13 441	23 042	68 529	3 475	(*)	(*)
	SOUTH CAROLINA . . . . .	114	36	3 770	14 430	3 044	6 284	10 325	23 918	1 569	(*)	(*)
	GEORGIA . . . . .	253	86	7 972	34 434	5 941	11 515	21 745	66 971	2 266	(*)	(*)
	FLORIDA . . . . .	354	53	3 998	16 626	3 069	5 947	11 367	27 747	2 868	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	628	152	27 173	131 163	20 410	39 007	86 715	244 282	21 289	(*)	(*)
	KENTUCKY . . . . .	172	44	12 880	65 229	9 466	18 103	42 710	132 629	13 051	(*)	(*)
	TENNESSEE . . . . .	211	51	8 013	37 037	6 090	11 404	24 940	64 987	4 474	(*)	(*)
	ALABAMA . . . . .	159	37	4 387	20 115	3 331	6 467	13 501	28 885	2 734	(*)	(*)
	MISSISSIPPI . . . . .	86	20	2 093	8 782	1 523	3 033	5 564	17 781	1 030	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	1 806	379	51 112	255 145	36 319	73 125	160 307	492 945	29 685	(*)	(*)
	ARKANSAS . . . . .	101	10	1 279	5 087	963	1 738	3 414	11 172	700	(*)	(*)
	LOUISIANA . . . . .	186	34	3 082	14 635	2 415	4 767	10 145	25 228	1 763	(*)	(*)
	OKLAHOMA . . . . .	362	78	9 334	46 144	6 642	12 942	29 491	77 190	3 320	(*)	(*)
	TEXAS . . . . .	1 157	257	37 417	189 279	26 299	53 678	117 257	379 355	23 902	(*)	(*)
	MOUNTAIN . . . . .	523	82	11 639	61 963	8 072	15 823	38 547	109 906	10 096	(*)	(*)
	MONTANA . . . . .	35	1	108	443	89	149	359	543	228	(*)	(*)
	IDAHO . . . . .	59	9	845	6 000	684	1 391	4 582	8 399	523	(*)	(*)
	WYOMING . . . . .	18	2	127	613	101	180	407	1 336	169	(*)	(*)
	COLORADO . . . . .	173	37	4 678	24 224	3 425	6 594	15 813	50 543	3 936	(*)	(*)
	NEW MEXICO . . . . .	59	5	563	2 702	445	838	2 017	4 823	463	(*)	(*)
	ARIZONA . . . . .	111	18	2 998	16 682	1 816	3 814	8 158	18 913	3 459	(*)	(*)
	UTAH . . . . .	57	10	2 258	11 233	1 463	2 772	7 013	25 341	1 200	(*)	(*)
	NEVADA . . . . .	11	1	62	266	49	85	198	8	118	(*)	(*)
	PACIFIC . . . . .	4 440	753	87 992	510 086	60 136	119 477	311 272	858 967	56 325	(*)	(*)
	WASHINGTON . . . . .	321	55	5 265	29 236	3 872	7 514	20 784	52 829	2 768	(*)	(*)
	OREGON . . . . .	286	41	4 062	22 323	2 999	5 720	15 213	38 390	2 366	(*)	(*)
	CALIFORNIA . . . . .	3 833	657	78 665	458 527	53 265	106 243	275 275	767 748	51 191	(*)	(*)
351	ENGINES AND TURBINES, TOTAL. . . . .	140	100	95 572	551 775	65 090	127 779	356 252	1 067 971	61 191	81 955	690 131
	NEW ENGLAND . . . . .	14	13	9 378	55 919	5 617	11 261	33 853	112 383	3 157	9 110	69 967
	MIDDLE ATLANTIC . . . . .	24	15	32 420	196 993	22 162	43 263	128 574	414 659	15 564	26 665	245 100
	PENNSYLVANIA . . . . .	12	10	20 493	121 753	13 428	26 119	74 203	236 430	9 381	15 434	124 264
	EAST NORTH CENTRAL . . . . .	63	49	46 048	255 474	32 085	62 021	166 775	458 503	40 867	41 488	336 023
	MICHIGAN . . . . .	18	13	11 309	67 248	7 886	15 308	43 546	110 199	(D)	11 778	111 916
	WISCONSIN . . . . .	25	21	18 218	96 295	12 977	25 128	64 764	183 373	6 872	14 048	115 038
	WEST NORTH CENTRAL . . . . .	11	7	3 166	16 033	2 371	5 230	11 261	26 711	655	2 867	19 061
	SOUTH ATLANTIC . . . . .	6	3	74	274	50	102	136	506	29	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	4	2	140	701	100	193	477	1 030	6	(*)	(*)
	WEST . . . . .	18	11	4 346	26 381	2 705	5 709	15 176	54 179	913	(*)	(*)

See footnotes at end of table.



## MACHINERY, EXCEPT ELECTRICAL

35-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital ex- pendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
352	FARM MACHINERY AND EQUIPMENT, TOTAL <sup>2</sup>	1 469	509	108 586	550 998	79 922	153 962	373 240	1 087 836	49 779	(*)	(*)
353	CONSTRUCTION & LIKE EQUIPMENT, TOTAL	2 048	929	199 711	1 073 263	133 561	256 872	638 147	2 054 841	87 576	(*)	(*)
	NEW ENGLAND . . . . .	88	31	3 588	17 780	2 635	5 227	12 013	31 001	855	(*)	(*)
	MASSACHUSETTS . . . . .	47	20	1 739	8 823	1 288	2 587	6 050	15 252	339	(*)	(*)
	CONNECTICUT . . . . .	29	7	320	1 732	* 229	396	1 148	2 674	84	(*)	(*)
	MIDDLE ATLANTIC . . . . .	297	145	27 027	147 093	17 002	33 513	85 140	311 090	7 818	(*)	(*)
	NEW YORK . . . . .	100	41	4 168	22 294	2 854	5 828	13 838	45 240	1 181	(*)	(*)
	NEW JERSEY . . . . .	66	31	7 485	44 028	4 420	9 029	24 005	103 625	2 094	(*)	(*)
	PENNSYLVANIA . . . . .	131	73	15 374	80 771	9 728	18 656	47 297	162 225	4 543	(*)	(*)
	EAST NORTH CENTRAL . . . . .	593	303	101 602	545 288	68 958	127 935	326 370	1 049 825	46 076	(*)	(*)
	OHIO . . . . .	170	91	24 300	131 076	15 478	29 351	73 354	206 230	11 470	(*)	(*)
	INDIANA . . . . .	48	27	5 047	25 382	3 603	6 872	16 264	43 682	6 456	(*)	(*)
	ILLINOIS . . . . .	169	89	45 196	231 910	31 935	56 855	145 848	550 215	21 463	(*)	(*)
	MICHIGAN . . . . .	125	52	11 683	69 151	8 089	15 481	41 713	114 369	2 659	(*)	(*)
	WISCONSIN . . . . .	81	44	15 376	87 769	9 853	19 376	49 191	135 329	4 028	(*)	(*)
	WEST NORTH CENTRAL . . . . .	194	86	13 818	71 426	9 221	18 669	42 924	121 451	5 717	(*)	(*)
	MINNESOTA . . . . .	54	26	4 523	24 263	3 053	6 172	15 020	37 196	934	(*)	(*)
	IOWA . . . . .	49	23	5 823	30 165	4 098	8 433	18 895	55 811	2 300	(*)	(*)
	KANSAS . . . . .	32	11	1 749	8 333	942	1 867	4 268	12 850	854	(*)	(*)
	SOUTH ATLANTIC . . . . .	107	43	4 262	21 021	3 000	5 874	12 535	39 966	1 603	(*)	(*)
	MARYLAND . . . . .	12	3	485	2 750	330	706	1 547	4 390	65	(*)	(*)
	VIRGINIA . . . . .	16	6	343	1 514	258	505	987	3 168	456	(*)	(*)
	WEST VIRGINIA . . . . .	30	14	1 277	7 181	854	1 672	4 151	10 588	414	(*)	(*)
	NORTH CAROLINA . . . . .	15	5	327	1 345	233	490	796	2 769	108	(*)	(*)
	GEORGIA . . . . .	18	8	1 556	7 095	1 132	2 130	4 363	17 099	508	(*)	(*)
	FLORIDA . . . . .	11	5	193	882	135	229	501	1 441	44	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	65	31	4 501	21 450	3 148	6 278	13 000	29 885	1 843	(*)	(*)
	KENTUCKY . . . . .	21	7	919	4 503	652	1 335	2 738	7 330	119	(*)	(*)
	TENNESSEE . . . . .	25	14	1 496	6 808	1 094	2 027	4 263	10 632	322	(*)	(*)
	ALABAMA . . . . .	11	5	1 338	6 717	888	1 734	3 978	6 147	1 015	(*)	(*)
	MISSISSIPPI . . . . .	8	5	748	3 422	514	1 182	2 021	5 776	387	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	329	155	27 252	147 258	18 249	37 473	88 391	292 745	15 933	(*)	(*)
	OKLAHOMA . . . . .	91	36	5 332	28 562	3 724	7 416	18 175	46 428	1 398	(*)	(*)
	TEXAS . . . . .	216	110	20 706	113 131	13 586	28 179	66 470	235 660	14 148	(*)	(*)
	MOUNTAIN . . . . .	58	21	4 185	22 112	2 731	5 151	13 247	49 354	2 689	(*)	(*)
	COLORADO . . . . .	31	15	2 432	13 028	1 702	3 255	8 070	26 705	2 019	(*)	(*)
	UTAH . . . . .	14	4	1 576	8 130	893	1 635	4 588	20 079	584	(*)	(*)
	PACIFIC . . . . .	317	114	13 476	79 835	8 617	16 752	44 527	129 524	5 042	(*)	(*)
	WASHINGTON . . . . .	27	13	1 285	7 841	941	1 807	5 278	12 305	415	(*)	(*)
	OREGON . . . . .	29	6	1 245	7 199	846	1 704	4 603	9 391	657	(*)	(*)
	CALIFORNIA . . . . .	261	95	10 946	64 795	6 830	13 241	34 646	107 828	3 970	(*)	(*)
354	METALWORKING MACHINERY, TOTAL . . . .	7 930	1 812	233 523	1 379 556	174 330	343 612	943 711	2 058 049	105 716	(*)	(*)
	NEW ENGLAND . . . . .	944	221	38 889	209 331	27 871	54 491	135 247	301 819	16 009	(*)	(*)
	MAINE . . . . .	4	1	155	813	119	276	577	1 188	31	(*)	(*)
	NEW HAMPSHIRE . . . . .	17	2	537	2 543	355	704	1 553	4 221	195	(*)	(*)
	VERMONT . . . . .	15	9	4 206	21 348	2 870	5 144	12 956	26 478	1 121	(*)	(*)
	MASSACHUSETTS . . . . .	377	99	14 997	78 542	10 700	21 277	50 599	121 220	4 651	(*)	(*)
	RHODE ISLAND . . . . .	92	20	4 038	20 481	2 849	5 284	11 987	28 254	1 902	(*)	(*)
	CONNECTICUT . . . . .	439	90	14 956	85 604	10 978	21 806	57 575	120 458	8 109	(*)	(*)
	MIDDLE ATLANTIC . . . . .	1 672	311	42 620	235 277	32 197	62 447	163 937	355 030	16 165	(*)	(*)
	NEW YORK . . . . .	780	131	16 564	91 335	11 951	22 921	60 540	136 555	5 235	(*)	(*)
	NEW JERSEY . . . . .	496	78	8 182	44 757	6 050	12 196	30 735	66 387	3 483	(*)	(*)
	PENNSYLVANIA . . . . .	396	102	17 874	99 185	14 196	27 330	72 662	152 088	7 447	(*)	(*)
	EAST NORTH CENTRAL . . . . .	3 889	1 031	127 382	799 944	95 420	190 276	549 838	1 173 892	57 040	(*)	(*)
	OHIO . . . . .	928	283	42 748	253 546	31 825	62 880	170 172	376 082	21 503	(*)	(*)
	INDIANA . . . . .	345	78	7 228	43 323	5 621	11 486	31 529	62 986	3 274	(*)	(*)
	ILLINOIS . . . . .	795	191	26 998	159 080	19 650	38 797	104 389	238 267	14 426	(*)	(*)
	MICHIGAN . . . . .	1 554	419	42 599	297 180	32 994	66 816	213 825	425 458	13 477	(*)	(*)
	WISCONSIN . . . . .	267	60	7 809	46 815	5 330	10 297	29 923	71 099	4 360	(*)	(*)
	WEST NORTH CENTRAL . . . . .	288	64	6 213	34 274	4 352	8 736	21 708	55 041	2 325	(*)	(*)
	MINNESOTA . . . . .	72	17	2 189	12 497	1 474	3 096	7 885	18 738	833	(*)	(*)
	IOWA . . . . .	47	10	1 254	6 957	841	1 675	3 935	11 022	268	(*)	(*)
	MISSOURI . . . . .	131	27	2 197	12 074	1 599	3 140	7 968	21 072	1 071	(*)	(*)
	KANSAS . . . . .	30	7	376	1 756	290	497	1 264	2 817	110	(*)	(*)
	SOUTH . . . . .	354	67	8 140	38 931	6 308	11 578	27 654	73 880	3 953	(*)	(*)
	DELAWARE . . . . .	10	2	270	1 419	214	416	1 031	2 313	227	(*)	(*)
	MARYLAND . . . . .	40	12	2 628	11 709	1 890	3 433	7 635	28 653	889	(*)	(*)
	GEORGIA . . . . .	23	6	404	2 108	326	600	1 502	3 874	156	(*)	(*)
	FLORIDA . . . . .	52	6	531	2 581	437	851	1 905	4 255	396	(*)	(*)
	KENTUCKY . . . . .	30	6	555	2 723	405	742	1 593	5 516	431	(*)	(*)
	ALABAMA . . . . .	14	4	169	828	142	297	709	1 267	100	(*)	(*)
	OKLAHOMA . . . . .	17	4	157	736	132	259	578	1 355	82	(*)	(*)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital ex- pendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
354	METALWORKING MACHINERY—CONTINUED											
	MOUNTAIN . . . . .	43	5	519	3 050	428	872	2 391	4 569	588	(*)	(*)
	COLORADO . . . . .	12	2	112	492	86	158	349	775	427	(*)	(*)
	ARIZONA . . . . .	22	3	366	2 383	306	668	1 903	3 495	87	(*)	(*)
	PACIFIC . . . . .	740	113	9 760	58 749	7 754	15 212	42 936	93 818	9 636	(*)	(*)
	WASHINGTON . . . . .	18	2	343	2 059	260	492	1 489	3 361	265	(*)	(*)
	OREGON . . . . .	19	1	132	611	115	187	519	1 206	78	(*)	(*)
	CALIFORNIA . . . . .	703	110	9 285	56 079	7 379	14 533	40 928	89 251	9 293	(*)	(*)
355	SPECIAL INDUSTRY MACHINERY, TOTAL . .	3 174	1 152	162 262	853 598	112 518	223 495	525 292	1 339 530	53 807	165 746	1 214 836
	NEW ENGLAND . . . . .	409	163	33 528	166 809	23 153	46 397	102 521	241 792	9 269	37 457	247 812
	NEW HAMPSHIRE . . . . .	29	10	3 906	18 357	2 809	5 788	12 081	32 084	1 234	3 841	27 052
	MASSACHUSETTS . . . . .	233	99	20 879	103 260	14 317	28 348	63 198	142 700	5 409	22 350	136 712
	RHODE ISLAND . . . . .	56	22	2 222	9 834	1 669	3 211	6 414	17 902	357	2 543	14 844
	CONNECTICUT . . . . .	62	19	4 196	23 875	2 588	5 079	12 894	39 662	1 708	5 689	53 858
	MIDDLE ATLANTIC . . . . .	875	306	44 282	238 122	30 627	60 637	149 650	354 500	14 859	46 014	333 176
	NEW YORK . . . . .	419	119	17 870	98 719	12 323	24 772	63 624	150 416	6 536	17 106	126 622
	NEW JERSEY . . . . .	230	83	10 336	59 753	7 136	14 560	36 411	94 900	4 077	10 611	84 844
	PENNSYLVANIA . . . . .	226	104	16 076	79 650	11 168	21 305	49 615	109 184	4 246	18 296	121 709
	EAST NORTH CENTRAL . . . . .	804	326	45 869	262 197	31 310	61 735	156 239	424 538	16 393	47 756	397 786
	OHIO . . . . .	216	100	14 250	78 884	9 728	18 840	47 853	128 817	6 747	14 668	125 473
	INDIANA . . . . .	63	18	2 856	15 812	1 797	3 521	8 410	24 766	1 661	2 213	19 542
	ILLINOIS . . . . .	266	103	14 257	81 754	9 552	18 790	47 673	130 422	4 489	15 086	129 875
	MICHIGAN . . . . .	138	52	6 311	39 718	4 036	8 023	21 006	72 072	1 346	7 452	61 217
	WISCONSIN . . . . .	121	53	8 195	46 029	6 197	12 561	31 297	68 461	2 150	8 336	61 677
	WEST NORTH CENTRAL . . . . .	176	54	5 246	25 201	3 343	6 519	14 030	45 479	1 958	4 357	31 786
	MINNESOTA . . . . .	57	20	1 452	7 409	928	1 921	4 112	12 785	1 033	1 309	9 849
	IOWA . . . . .	37	13	1 305	6 059	999	1 929	4 101	12 777	448	1 110	7 939
	MISSOURI . . . . .	59	14	1 820	8 273	934	1 642	3 798	12 798	251	1 606	10 988
	KANSAS . . . . .	14	7	648	3 365	462	994	1 929	6 963	219	233	2 398
	SOUTH ATLANTIC . . . . .	333	148	16 149	71 681	11 727	23 654	44 314	116 108	4 454	14 352	84 815
	DELAWARE . . . . .	9	6	1 486	9 458	957	1 849	4 956	7 259	683	1 750	8 980
	MARYLAND . . . . .	37	15	2 645	14 033	1 707	3 502	8 303	24 730	266	3 381	23 857
	VIRGINIA . . . . .	25	9	840	3 283	582	1 046	2 125	5 084	186	(*)	(*)
	NORTH CAROLINA . . . . .	124	53	5 013	19 885	3 692	7 473	12 413	37 779	1 469	3 554	20 830
	SOUTH CAROLINA . . . . .	40	23	2 817	10 781	2 386	5 016	7 667	17 769	905	2 001	8 901
	GEORGIA . . . . .	67	34	2 750	11 720	1 971	3 997	7 203	20 811	749	2 519	14 173
	EAST SOUTH CENTRAL . . . . .	73	29	3 046	13 973	2 350	4 608	9 799	24 514	1 117	2 733	19 462
	TENNESSEE . . . . .	28	9	1 064	4 950	766	1 545	3 280	6 867	158	898	4 219
	ALABAMA . . . . .	14	7	1 018	4 617	851	1 648	3 461	7 358	723	760	4 448
	WEST SOUTH CENTRAL . . . . .	110	36	4 194	19 855	2 963	6 211	12 388	37 237	1 191	3 354	23 581
	LOUISIANA . . . . .	13	6	394	2 014	296	631	1 244	3 622	105	467	2 777
	OKLAHOMA . . . . .	17	9	603	2 468	439	737	1 561	3 799	181	(*)	(*)
	TEXAS . . . . .	75	21	3 149	15 170	2 189	4 780	9 422	29 169	865	2 731	19 841
	MOUNTAIN . . . . .	20	3	333	1 755	241	452	1 114	2 796	212	428	2 921
	PACIFIC . . . . .	374	87	9 615	54 005	6 804	13 282	35 237	92 566	4 354	9 292	73 494
	WASHINGTON . . . . .	45	12	1 107	6 298	820	1 636	4 412	11 905	216	1 390	10 534
	OREGON . . . . .	43	16	1 180	6 761	816	1 528	4 076	13 159	204	1 007	9 573
	CALIFORNIA . . . . .	286	59	7 328	40 946	5 168	10 118	26 749	67 502	3 934	6 895	53 386
356	GENERAL INDUSTRIAL MACHINERY, TOTAL .	3 325	1 058	211 382	1 143 282	143 431	278 596	691 248	1 935 184	109 683	(*)	(*)
	NEW ENGLAND . . . . .	275	108	32 825	163 609	23 182	45 060	104 250	279 674	16 283	(*)	(*)
	MASSACHUSETTS . . . . .	135	52	9 055	46 393	6 210	12 086	28 183	79 604	4 543	(*)	(*)
	RHODE ISLAND . . . . .	26	9	903	4 505	594	1 246	2 598	7 464	117	(*)	(*)
	CONNECTICUT . . . . .	98	42	21 345	106 146	15 311	29 517	69 714	179 258	10 155	(*)	(*)
	MIDDLE ATLANTIC . . . . .	759	248	57 939	310 161	38 831	76 475	187 871	494 441	28 307	(*)	(*)
	NEW YORK . . . . .	295	80	22 934	122 753	15 327	30 477	72 677	192 158	13 933	(*)	(*)
	NEW JERSEY . . . . .	206	74	14 278	78 525	9 484	19 014	47 665	122 260	4 797	(*)	(*)
	PENNSYLVANIA . . . . .	258	94	20 727	108 883	14 020	26 984	67 529	180 023	9 577	(*)	(*)
	EAST NORTH CENTRAL . . . . .	1 292	420	88 131	490 678	60 399	115 010	299 941	828 812	47 418	(*)	(*)
	OHIO . . . . .	340	109	30 627	162 434	20 740	37 642	96 514	269 269	14 720	(*)	(*)
	INDIANA . . . . .	115	40	12 399	66 759	8 777	16 624	43 105	115 173	11 483	(*)	(*)
	ILLINOIS . . . . .	349	128	19 140	106 574	13 149	26 486	65 337	202 301	7 912	(*)	(*)
	MICHIGAN . . . . .	317	92	16 157	97 447	11 299	21 649	61 832	139 657	7 692	(*)	(*)
	WISCONSIN . . . . .	171	51	9 808	57 464	6 434	12 609	33 153	102 412	5 611	(*)	(*)
	WEST NORTH CENTRAL . . . . .	190	65	6 343	32 252	4 567	9 157	21 241	59 439	2 702	(*)	(*)
	MINNESOTA . . . . .	60	25	1 868	9 662	1 330	2 757	6 110	16 436	681	(*)	(*)
	MISSOURI . . . . .	70	19	1 618	8 669	1 169	2 244	5 686	16 738	1 366	(*)	(*)
	NEBRASKA . . . . .	11	6	913	4 256	668	1 362	2 966	8 521	77	(*)	(*)
	KANSAS . . . . .	22	7	897	4 507	652	1 388	3 166	9 565	419	(*)	(*)
	SOUTH ATLANTIC . . . . .	124	39	4 202	18 859	2 883	5 360	11 248	33 884	1 255	(*)	(*)
	MARYLAND . . . . .	24	8	1 722	9 109	1 045	2 145	4 948	13 480	540	(*)	(*)
	VIRGINIA . . . . .	10	4	215	778	162	270	471	1 278	90	(*)	(*)
	NORTH CAROLINA . . . . .	17	3	680	2 504	540	709	1 755	6 402	(1)	(*)	(*)
	GEORGIA . . . . .	18	8	551	2 441	371	728	1 369	5 803	97	(*)	(*)
	FLORIDA . . . . .	33	10	667	2 572	475	929	1 654	3 838	199	(*)	(*)

See footnotes at end of table.



## MACHINERY, EXCEPT ELECTRICAL

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
356	GENERAL INDUSTRIAL MACHINERY—CON.											
	EAST SOUTH CENTRAL . . . . .	50	15	2 255	11 730	1 787	3 476	8 440	26 505	2 079	(*)	(*)
	KENTUCKY . . . . .	15	5	1 248	6 478	1 072	2 088	5 067	19 937	579	(*)	(*)
	TENNESSEE . . . . .	17	5	555	2 930	414	820	2 030	2 896	1 388	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	169	51	5 130	24 765	3 654	7 520	14 957	44 506	1 811	(*)	(*)
	ARKANSAS . . . . .	6	2	237	910	166	320	607	2 822	57	(*)	(*)
	LOUISIANA . . . . .	16	3	237	1 179	173	342	694	1 815	81	(*)	(*)
	OKLAHOMA . . . . .	40	15	1 628	7 549	1 055	2 122	4 123	13 433	498	(*)	(*)
	TEXAS . . . . .	107	31	3 028	15 127	2 260	4 736	9 533	26 436	1 175	(*)	(*)
	MOUNTAIN . . . . .	38	7	1 005	7 064	740	1 575	4 978	12 152	323	(*)	(*)
	COLORADO . . . . .	19	5	435	2 347	281	581	1 340	5 960	200	(*)	(*)
	PACIFIC . . . . .	428	105	13 552	84 164	7 388	14 963	38 322	155 771	9 505	(*)	(*)
	WASHINGTON . . . . .	29	7	603	3 439	413	801	2 418	6 108	154	(*)	(*)
	OREGON . . . . .	21	3	260	1 541	213	428	1 222	2 529	93	(*)	(*)
	CALIFORNIA . . . . .	378	95	12 689	79 184	6 762	13 734	34 682	147 134	9 258	(*)	(*)
357	OFFICE MACHINES, NEC, TOTAL . . . . .	346	188	121 615	667 480	80 948	156 358	398 707	970 529	84 496	(*)	(*)
	NEW ENGLAND . . . . .	46	25	15 610	70 877	12 217	22 157	49 173	125 120	9 544	(*)	(*)
	MASSACHUSETTS . . . . .	24	10	2 323	13 745	1 499	3 241	6 686	17 925	736	(*)	(*)
	CONNECTICUT . . . . .	18	12	12 183	52 287	9 895	17 264	39 168	98 650	8 494	(*)	(*)
	MIDDLE ATLANTIC . . . . .	108	64	49 598	262 820	29 627	57 904	139 235	316 204	26 540	(*)	(*)
	NEW YORK . . . . .	73	43	42 457	226 602	24 594	47 792	116 013	264 334	24 611	(*)	(*)
	NEW JERSEY . . . . .	19	11	3 830	18 472	2 331	4 640	9 690	30 540	1 227	(*)	(*)
	PENNSYLVANIA . . . . .	16	10	3 311	17 746	2 702	5 472	13 532	21 330	702	(*)	(*)
	NORTH CENTRAL . . . . .	95	59	41 439	244 207	30 532	59 057	168 168	403 072	30 721	(*)	(*)
	INDIANA . . . . .	5	3	148	597	111	213	377	1 730	30	(*)	(*)
	ILLINOIS . . . . .	45	32	6 770	35 675	4 269	8 342	18 506	73 300	1 462	(*)	(*)
	SOUTH . . . . .	32	12	4 213	24 071	2 801	5 733	13 524	49 786	8 303	(*)	(*)
	FLORIDA . . . . .	7	2	147	602	110	199	336	1 127	257	(*)	(*)
	WEST . . . . .	65	28	10 755	65 505	5 771	11 507	28 607	76 347	9 388	(*)	(*)
	CALIFORNIA . . . . .	53	25	9 805	58 098	5 529	11 027	27 504	73 507	7 280	(*)	(*)
358	SERVICE INDUSTRY MACHINES, TOTAL . . . . .	1 256	523	100 059	508 836	67 804	132 604	299 606	918 151	31 358	(*)	(*)
	NEW ENGLAND . . . . .	56	29	6 656	34 601	4 758	9 581	22 869	63 974	1 233	(*)	(*)
	MASSACHUSETTS . . . . .	34	18	4 775	25 995	3 507	6 941	17 329	50 198	785	(*)	(*)
	CONNECTICUT . . . . .	12	6	1 196	5 899	922	1 953	4 181	8 707	268	(*)	(*)
	MIDDLE ATLANTIC . . . . .	289	120	26 234	135 759	16 640	32 841	74 538	235 931	10 007	(*)	(*)
	NEW YORK . . . . .	141	57	13 087	69 261	7 618	14 900	33 897	139 329	7 073	(*)	(*)
	NEW JERSEY . . . . .	64	28	5 720	31 839	3 609	7 144	17 951	41 068	1 212	(*)	(*)
	PENNSYLVANIA . . . . .	84	35	7 427	34 659	5 413	10 797	22 690	55 534	1 722	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	373	176	35 038	185 461	23 905	45 891	109 776	339 947	11 397	(*)	(*)
	OHIO . . . . .	74	39	7 968	40 228	5 795	10 984	25 972	66 088	2 013	(*)	(*)
	INDIANA . . . . .	42	20	4 390	22 684	2 937	5 682	12 775	44 251	1 888	(*)	(*)
	ILLINOIS . . . . .	153	69	8 144	43 025	5 380	10 740	24 410	82 684	2 016	(*)	(*)
	MICHIGAN . . . . .	67	31	9 461	53 168	6 423	11 895	30 993	93 804	2 574	(*)	(*)
	WISCONSIN . . . . .	37	17	5 075	26 356	3 370	6 590	15 626	53 120	2 906	(*)	(*)
	WEST NORTH CENTRAL . . . . .	133	64	13 416	65 120	8 833	17 294	38 030	111 507	3 022	(*)	(*)
	MINNESOTA . . . . .	52	24	4 392	21 332	3 008	5 991	12 441	40 407	1 140	(*)	(*)
	IOWA . . . . .	13	9	618	2 697	411	815	1 636	5 196	194	(*)	(*)
	MISSOURI . . . . .	46	24	6 758	33 372	4 551	9 164	19 887	58 549	1 213	(*)	(*)
	KANSAS . . . . .	14	5	1 447	7 037	733	1 106	3 635	5 850	317	(*)	(*)
	SOUTH ATLANTIC . . . . .	72	28	3 773	16 332	2 699	5 204	9 674	32 644	1 025	(*)	(*)
	MARYLAND . . . . .	11	7	1 151	5 186	792	1 490	2 998	13 893	304	(*)	(*)
	NORTH CAROLINA . . . . .	6	3	447	2 123	323	643	1 225	3 369	169	(*)	(*)
	SOUTH CAROLINA . . . . .	5	3	124	326	101	149	245	773	25	(*)	(*)
	GEORGIA . . . . .	10	3	678	2 731	532	1 073	1 674	5 052	81	(*)	(*)
	FLORIDA . . . . .	27	5	344	1 424	236	459	933	2 341	102	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	21	13	2 823	13 022	2 155	4 020	8 288	27 734	1 100	(*)	(*)
	KENTUCKY . . . . .	6	5	1 784	9 158	1 323	2 517	5 795	18 120	932	(*)	(*)
	TENNESSEE . . . . .	7	4	700	2 469	620	1 088	1 704	7 399	(D)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	106	31	4 789	20 755	3 663	7 480	12 778	41 958	1 403	(*)	(*)
	ARKANSAS . . . . .	8	2	122	551	76	142	303	682	31	(*)	(*)
	LOUISIANA . . . . .	11	1	142	625	118	204	382	1 239	83	(*)	(*)
	OKLAHOMA . . . . .	13	3	207	936	167	305	643	1 703	75	(*)	(*)
	TEXAS . . . . .	74	25	4 318	18 643	3 302	6 829	11 450	38 334	1 214	(*)	(*)
	MOUNTAIN . . . . .	25	8	1 481	6 133	1 081	2 356	4 309	10 905	567	(*)	(*)
	ARIZONA . . . . .	9	5	1 097	4 275	779	1 703	3 021	7 577	218	(*)	(*)
	PACIFIC . . . . .	181	54	5 849	31 653	4 070	7 937	19 344	53 551	1 604	(*)	(*)
	CALIFORNIA . . . . .	164	51	5 521	29 916	3 853	7 520	18 271	50 485	1 524	(*)	(*)
359	MACHINE SHOPS, TOTAL <sup>2 3</sup> . . . . .	10 151	1 089	115 535	574 873	91 528	179 544	420 376	959 099	92 813	103 727	732 387

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete reclassification of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

<sup>1</sup>The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>2</sup>Withheld to avoid disclosing figures for individual companies.

<sup>3</sup>Revisions in the 1957 Standard Industrial Classification for some industries within Major Groups 35 and 36 make separate data for these two Major Groups not comparable with earlier years. The details of the revisions are described in the texts for the individual industries involved. Data for establishments classified in Major Groups 35 and 36, combined, are comparable between 1958 and 1954, and are shown in this table. Separate data for 1958 for Major Group 35 are shown in the next table. Similar separate 1958 data for Major Group 36 are shown in the next chapter.

<sup>4</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

<sup>5</sup>The 1954 data for this industry group are not strictly comparable with 1958 figures shown in the table. See the section relating to the specified industry in 1958 Census of Manufactures, Volume II, for further information on the comparability of 1958 and 1954 statistics.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Machin- ery, except electri- cal (SIC 35)	Engines and turbines (SIC 351)	Farm machin- ery and equip- ment (SIC 352)	Construc- tion, and like equip- ment (SIC 353)	Metal working machin- ery (SIC 354)	Special industry machin- ery (SIC 355)	General indus- trial machin- ery (SIC 356)	Office machines, nec (SIC 357)	Service indus- try machines (SIC 358)	Machine shops (SIC 359)
Number of establishments, total.....	29,839	140	1,469	2,048	7,930	3,174	3,325	346	1,256	10,151
With 1-19 employees.....	22,479	40	960	1,119	6,118	2,022	2,267	158	733	9,062
With 20-99 employees.....	5,275	28	351	564	1,420	831	684	86	334	977
With 100 employees or more.....	2,085	72	158	365	392	321	374	102	189	112
Proprietors and working partners.....Number..	18,041	20	822	728	4,867	1,318	1,744	86	394	8,062
All employees:										
Number (average for the year).....	1,348,245	95,572	108,586	199,711	233,523	162,262	211,382	121,615	100,059	115,535
Payroll.....\$1,000..	7,303,661	551,775	550,998	1,073,263	1,379,556	853,598	1,143,282	667,480	508,836	574,873
Production workers:										
Number (average for the year).....	949,132	65,090	79,922	133,561	174,330	112,518	143,431	80,948	67,804	91,528
March.....	984,518	72,317	82,669	139,946	184,583	117,066	148,706	79,580	69,779	89,872
May.....	953,326	67,535	82,004	129,967	179,556	113,415	141,736	78,500	71,052	89,561
August.....	926,886	63,282	77,831	130,942	166,519	110,183	139,752	81,521	64,749	92,107
November.....	947,421	64,696	77,708	133,908	169,765	109,992	144,576	84,753	65,275	96,748
Man-hours.....1,000..	1,852,822	127,779	153,962	256,872	343,612	223,495	278,596	156,358	132,604	179,544
January-March.....do....	485,852	35,435	40,564	69,324	92,490	59,077	74,271	38,206	33,670	42,815
April-June.....do....	468,967	32,818	41,502	63,886	87,737	56,175	69,151	39,546	35,639	42,513
July-September.....do....	423,430	28,505	36,003	61,167	75,854	51,072	62,360	35,734	30,579	42,156
October-December.....do....	460,047	31,001	35,200	61,786	83,023	55,922	71,782	42,769	32,161	46,403
Wages.....\$1,000..	4,646,579	356,252	373,240	638,147	943,711	525,292	691,248	398,707	299,606	420,376
Value added by manufacture, adjusted....do....	12,391,190	1,067,971	1,087,836	2,054,841	2,058,049	1,339,530	1,935,184	970,529	918,151	959,099
Cost of fuels consumed.....do....	95,136	11,062	13,401	14,725	13,643	10,105	15,107	4,767	6,365	5,961
Cost of electricity purchased.....do....	114,721	6,686	8,457	19,601	21,115	13,206	19,538	6,816	9,032	10,270
Manufacturers' inventories:										
Beginning of year, total.....do....	5,973,626	532,362	547,002	1,222,258	867,245	738,781	835,660	545,811	467,072	217,435
Finished products.....do....	1,813,501	101,538	200,648	405,420	238,422	230,653	270,169	107,381	195,568	63,702
Work-in-process.....do....	2,544,063	322,347	163,107	393,929	435,810	315,939	339,578	366,772	122,183	84,398
Materials, supplies, fuel, etc.....do....	1,616,061	108,477	183,247	422,908	193,013	192,189	225,913	71,658	149,321	69,335
End of year, total.....do....	5,397,072	466,696	516,026	1,087,971	737,320	656,240	749,072	528,217	426,800	228,676
Finished products.....do....	1,668,930	96,460	186,765	368,289	213,243	218,559	238,462	118,588	163,813	64,751
Work-in-process.....do....	2,269,817	283,331	161,369	345,267	354,791	255,533	310,491	357,951	118,434	82,650
Materials, supplies, fuel, etc.....do....	1,451,271	86,905	167,892	374,415	169,286	182,148	200,119	51,678	144,553	81,275
Expenditures for plant and equipment, total.....do....	743,217	74,570	53,080	93,049	117,498	60,539	121,161	86,009	34,577	102,734
New, total.....do....	676,419	61,191	49,779	87,576	105,716	53,807	109,683	84,496	31,358	92,813
New structures and additions to plant.....do....	198,319	12,782	12,212	22,635	23,606	14,568	35,765	29,046	9,065	38,640
New machinery and equipment.....do....	478,100	48,409	37,567	64,941	82,110	39,239	73,918	55,450	22,293	54,173
Used plant and equipment.....do....	66,798	13,379	3,301	5,473	11,782	6,732	11,478	1,513	3,219	9,921

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.



# Engines and Turbines; Farm Machinery and Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 edition)

3511—Steam Engines; Steam, Gas, and Hydraulic Turbines; and Steam, Gas, and Hydraulic Turbine Generator Set Units

3519—Internal Combustion Engines, Not Elsewhere Classified

3522—Farm Machinery and Equipment

## 3511—Steam Engines; Steam, Gas, and Hydraulic Turbines; and Steam, Gas, and Hydraulic Turbine Generator Set Units.

This industry comprises establishments primarily engaged in manufacturing steam engines; steam turbines; hydraulic turbines; gas turbines except aircraft; and complete steam, gas, and hydraulic turbine generator set units. Establishments primarily engaged in building or rebuilding locomotives are classified in Industry 3741; and those manufacturing nonautomotive type generators which are not part of a turbine generator set in Industry 3621. For a detailed list of products of Industry 3511, refer to table 6A, product codes 3511112 to 3511273.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Establishments primarily engaged in manufacturing gas turbines (except aircraft) and parts, formerly included in Industry 3519, Internal Combustion Engines, are now classified in this industry.

Value of shipments and other receipts of the Steam Engines and Turbines Industry in 1958 totaled \$962 million. This included shipments of steam engines and turbines (primary products), valued at \$706 million, shipments of other products (secondary products) valued at \$198 million, and miscellaneous receipts of \$58 million.

This industry's shipments of steam engines and turbines (primary products) in 1958 represented 78 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of heat exchangers and steam condensers, \$28 million; and pumps and compressors, \$21 million.

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 69 percent of the total industry shipments are represented by plants specializing in steam, gas, and hydraulic turbine generator set units and parts, and 31 percent in steam, gas, and hydraulic turbines and parts.

Industry 3511 shipments of steam engines and turbines (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$754 million shipped by all industries.

In reporting data on products shipped, the establishments in this industry were instructed to report all steam engines and turbines which were physically shipped during 1958, including those on which some work may have been done prior to 1958. Conversely, steam engines and turbines partially completed at the end of 1958 and not shipped were excluded. While "shipments" were used as the standard measure throughout the Census with but few exceptions, the effect of this reporting procedure for Industry 3511 has a much greater effect on "value added by manufacture" than for most other industries. The decrease in inventories of finished products and work in process of approximately \$32 million indicates the approximate amount of overstatement in the value added by manufacture figure.

A few of the establishments engaged in manufacturing steam engines and turbines also installed the steam engines and turbines they produced. For 1958, establishments in Industry 3511 reported receipts for installation totaling \$4 million. The employment statistics for this industry include only employees attached to the manufacturing establishments and exclude local labor hired in the field for installation and erection work.

## 3519—Internal Combustion Engines, N.E.C.

This industry comprises establishments primarily engaged in manufacturing Diesel, semi-Diesel, or other internal combustion engines, n.e.c., for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines, including rocket engines, are classified in Industry 3722, automotive engines (except Diesel) in Industry 3714, and engine generator sets in Industry 3621. For a detailed list of products of Industry 3519, refer to table 6A, product codes 3519100 to 3519715.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number but were only slightly changed in comparison with data classified by the previous system.

Establishments primarily engaged in manufacturing gas turbines (except aircraft) and parts formerly included in this industry, are now classified in Industry 3511, Steam Engines and Turbines.

Value of shipments and other receipts of the Internal Combustion Engines Industry in 1958 totaled \$1,056 million. This included shipments of internal combustion engines (primary products), valued at \$910 million, shipments of other products (secondary products) valued at \$98 million, and miscellaneous receipts of \$48 million.

This industry's shipments of internal combustion engines (primary products) in 1958 represented 90 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent. Secondary products shipped by this industry in 1958 consisted mainly of prime mover genera-



tor sets (except steam or hydraulic), \$36 million, and parts and accessories for motor vehicles, \$18 million.

Inasmuch as Industry 3519 includes all establishments primarily engaged in manufacturing internal combustion engines (except automotive and aircraft), significantly different types of establishments are included. The most important difference concerns the type of engines produced. One distinct group comprises plants primarily manufacturing gasoline engines and another comprises those primarily manufacturing Diesel engines. Within the first group another significant difference concerns the size of gasoline engines produced. Establishments producing small gasoline engines for power lawn mowers, garden tractors, small engine-generators, pumps, etc., are included as well as plants principally producing large gasoline engines for industrial uses, large generator sets, tractors, farm equipment, etc. Establishments producing outboard motors are also included. For Diesel engines, likewise, a difference exists as to size of engine produced. Certain plants produce only large Diesel engines for locomotives, Diesel-electric sets, etc.

The extent of this specialization is indicated, in part, in table 8. Approximately 27 percent of the total industry shipments are represented by plants specializing in gasoline engines; 35 percent in Diesel engines; and 16 percent in parts and accessories for internal combustion engines.

Industry 3519 shipments of internal combustion engines (primary products) in 1958 represented 82 percent (coverage ratio) of these products valued at \$1,116 million shipped by all industries. In 1954, the coverage ratio was 83 percent. Other industries shipping internal combustion engines (primary products) consisted mainly of Industry 3522, Farm Machinery and Equipment, \$30 million; Industry 3531, Construction Machinery, \$61 million.

Internal combustion engines are produced captively in significant quantities by establishments classified in other industries, which incorporate the engines into other products (tractors, lawn mowers, etc.) made in the same establishment. The product statistics shown in Tables 6D, 6E, and 6F include data for engines produced and incorporated into the establishments' own end products as well as data for engines "transferred to plants of the same company." Data on engines sold to other companies also are shown separately. These data were compiled from supplemental reports filed by manufacturers of end products incorporating engines of their own manufacture.

Product data similar to that shown in Tables 6D through 6H have been collected and compiled annually since 1950 by the Bureau of the Census and published in Current Industrial Reports, Series M35L, Internal Combustion Engines.

### 3522--Farm Machinery and Equipment

This industry comprises establishments primarily engaged in manufacturing farm machinery, including equipment and wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing, on the farm, crops for market; or for use in performing other farm operations and processes. This industry includes wheel tractors except contractors' off-highway type which are classified in Industry 3531. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in Industry 3537; and farm hand tools in Group 342. For a

detailed list of products of Industry 3522, refer to table 6A, product codes 3522210 to 3522898.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Industry 3522 has been redefined according to the 1957 Standard Industrial Classification to include establishments primarily engaged in manufacturing wheel tractors (except contractors off-highway type), garden tractors, and parts and attachments for such tractors (formerly included in Industry 3521, Tractors); farm elevators and parts (formerly in Industry 3563, Conveyors); and power hedge trimmers and shears formerly in Industry 3421, Cutlery).

Value of shipments and other receipts of the farm machinery and equipment industry in 1958 totaled \$2,422 million. This included shipments of farm machines and equipment (primary products), valued at \$2,046 million, shipments of other products (secondary products) valued at \$220 million, and miscellaneous receipts of \$155 million.

This industry's shipments of farm machines and equipment (primary products) in 1958 represented 90 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of gray iron castings, \$21 million, internal combustion engines, \$30 million, and construction machinery, \$50 million.

Industry 3522 shipments of farm machines and equipment (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$2,173 million shipped by all industries. Other industries shipping farm machines and equipment (primary products) consisted mainly of Industry 3531, Construction Machinery.

Industry 3522 includes establishments producing a wide range of farm machinery and equipment including not only wheel tractors and equipment for raising and harvesting crops but also such other equipment as dairy equipment (milking machines, cream separators, etc.), poultry equipment (incubators, brooders, etc.), barn and barnyard equipment (barn cleaners, stock tanks, etc.) and machines for preparing crops for market (corn shellers, feed grinders, etc.).

Inasmuch as Industry 3522 covers such a wide range of products, the operations of the plants classified in this industry differ in some respects. Those plants engaged in manufacturing wheel tractors and self-propelled equipment such as combines, corn pickers, hay balers, etc., and to a lesser extent those manufacturing equipment for mounting on tractors or to be drawn by tractors, include large assembly operations in addition to the processes and operations involved in manufacturing the component parts. Also included within this industry are plants whose operations are largely limited to metal fabricating such as those primarily engaged in producing cattle stalls, animal stock tanks, poultry brooders, etc.

In table 8 data are shown for establishments specializing in each of the seven major classes of farm machinery



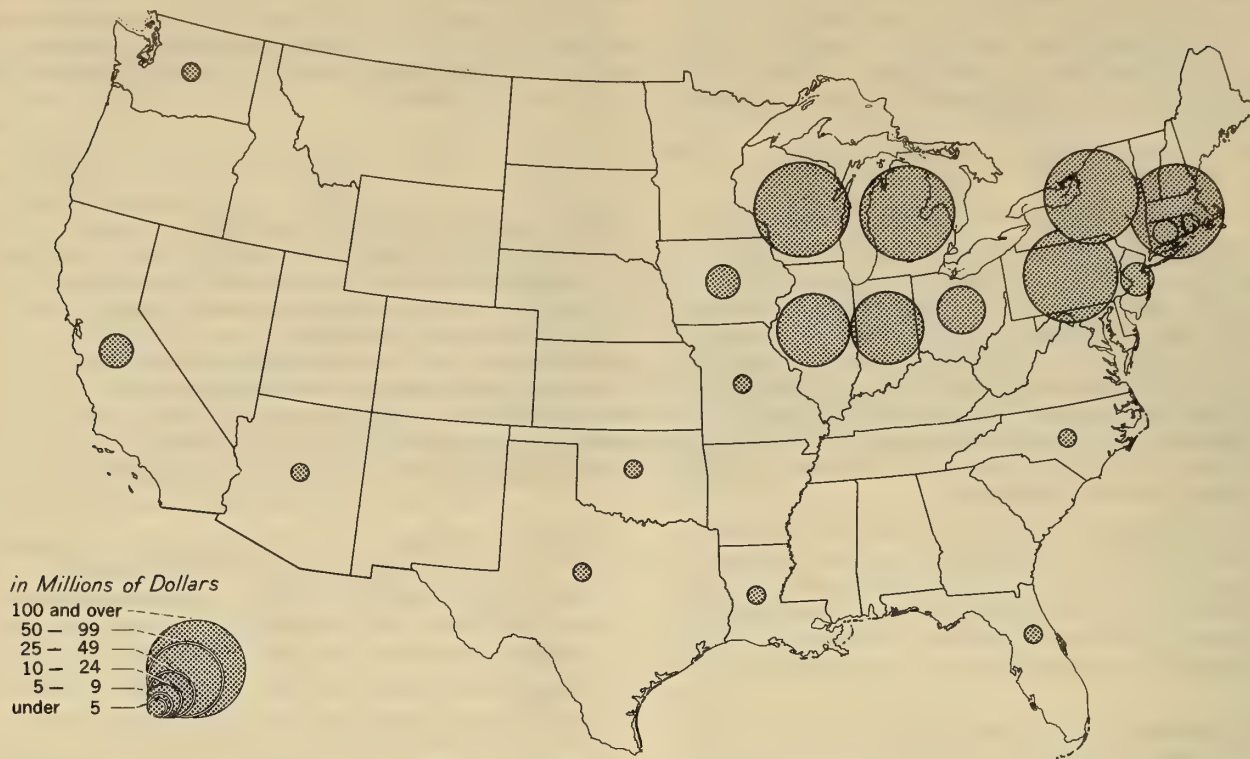
and equipment. Plants engaged primarily in the manufacture of wheel tractors, plows and listers, haying, and harvesting machinery account for 62 percent of the employment of this industry while they represent only 22 percent of all establishments classified in Industry 3522. Establishments specializing in other types of farm machinery in general are characterized by smaller operations

in terms of employment. Those specializing in the manufacture of lawn mowers and miscellaneous farm machinery and equipment, such as cultivators and weeders, farm poultry equipment and barn and barnyard equipment alone include 56 percent of the establishments in Industry 3522 but their employment accounts for only 28 percent of the total for the Industry.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

**ENGINES AND TURBINES: SIC 351**

Value Added by Manufacture by State: 1958

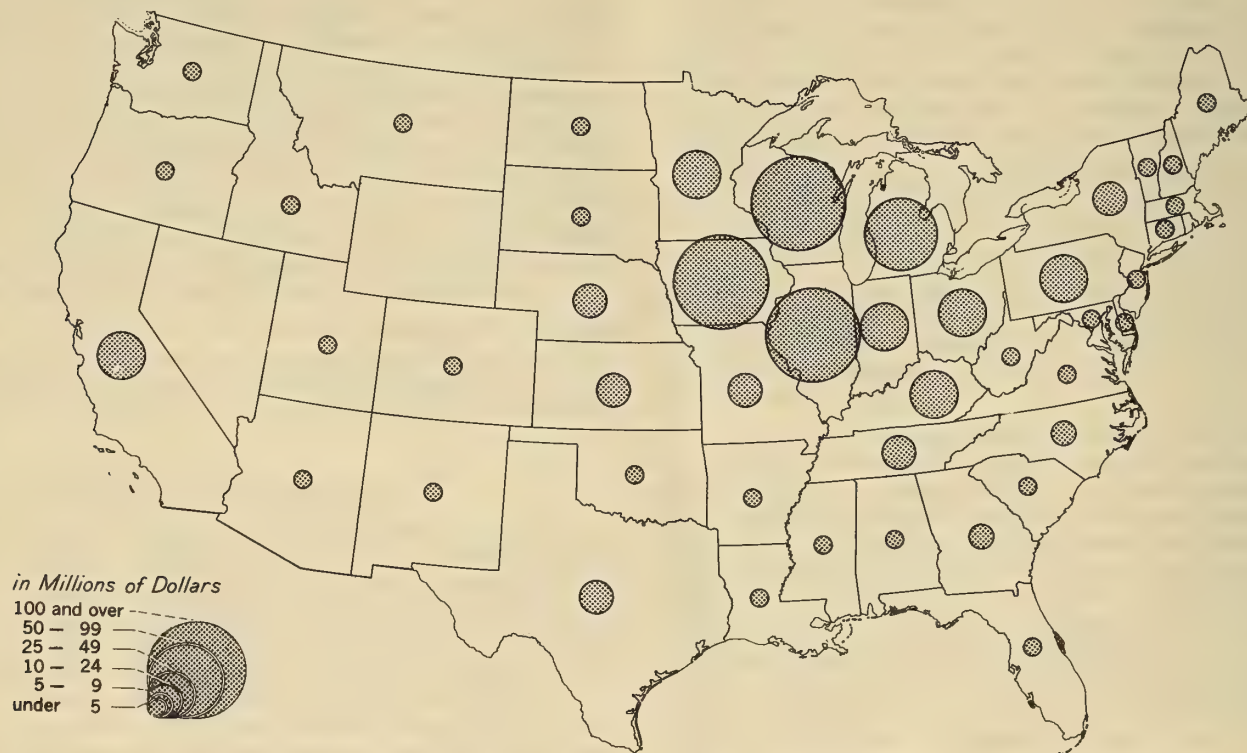


Includes Industries 3511 and 3519. See Table 2.

Bureau of the Census M-58-D351

**FARM MACHINERY AND EQUIPMENT: SIC 352**

Value Added by Manufacture by State: 1958



Includes Only Industry 3522. See Table 2.

Bureau of the Census M-58-D352



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Special- ization ratio <sup>6</sup> (per- cent)	Cov- er- age <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3511	Steam engines and turbines: <sup>8</sup>														
	1958.....	21	28	25	45,347	274,589	29,319	57,791	172,091	568,643	361,126	961,769	20,492	78	94
3519	Internal combustion engines: <sup>8</sup>														
	1958.....	97	112	75	50,225	277,186	35,771	69,988	184,161	499,328	544,072	1,055,699	40,699	90	82
351- (old SIC 351-)	Engines and turbines: <sup>8</sup>														
	1958.....	(NA)	140	100	95,572	551,775	65,090	127,789	356,252	1,067,971	(10)	(10)	61,191	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	89,794	508,733	65,131	131,566	345,185	959,407	(10)	(10)	78,588	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	85,158	466,315	63,333	131,568	321,354	834,347	(10)	(10)	43,322	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	82,163	415,484	61,204	123,497	289,639	751,314	(10)	(10)	36,507	(NA)	(NA)
	1954.....	(NA)	141	88	81,955	399,986	60,656	121,960	278,347	650,901	(10)	(10)	40,052	(NA)	(NA)
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	95,930	463,144	74,062	154,804	341,744	776,423	(10)	(10)	44,245	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	96,708	445,738	73,633	154,553	329,963	740,940	(10)	(10)	38,754	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	80,943	358,539	62,182	131,758	259,993	584,074	(10)	(10)	32,773	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	74,788	276,017	56,626	107,608	191,339	472,307	(10)	(10)	15,053	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	73,357	(NA)	54,035	107,280	(NA)	460,012	(10)	(10)	19,508	(NA)	(NA)
	1947.....	(NA)	149	92	87,688	280,424	67,127	144,783	202,483	408,099	(10)	(10)	36,580	(NA)	(NA)
	1939.....	(NA)	94	(NA)	(NA)	(NA)	18,846	(NA)	28,097	72,684	(10)	(10)	(NA)	(NA)	(NA)
	1937.....	(NA)	114	(NA)	(NA)	(NA)	25,325	(NA)	39,046	79,914	(10)	(10)	(NA)	(NA)	(NA)
3522	Farm machines and equipment: <sup>8</sup>														
	1958.....	1,389	1,469	509	108,586	550,998	79,922	153,962	373,240	1,087,836	1,318,416	2,421,873	49,779	90	94

NA Not available. <sup>r</sup>Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: **All employees:** for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the Engines and Turbines Group or Industries (Group 351) unadjusted value added by manufacture in 1954 was \$690,130 thousand.

<sup>4</sup>For 1958, includes cost of products bought for resale without further manufacture, processing or assembly. See Introduction, "Cost of Materials Consumed, Etc." The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958:

Industry Code	Cost of Materials, etc. (\$1,000)
	1958
3511	355,039
3519	522,999
3522	1,217,515

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)
	1958
3511	954,847
3519	1,024,312
3522	2,302,998

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that data for the industry are not comparable with earlier years. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A. Data for establishments classified in group 351 are comparable for all years since the 1957 revision in the Standard Industrial Classification merely shifted establishments primarily engaged in producing gas turbines (except aircraft) from Industry 3519 to Industry 3511. Accordingly, data for establishments classified in group 351 are shown in this table for the years 1937 to 1958.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>Not shown because of duplication in cost of materials and value of products shipped. (See text for more detailed explanation.)



## MANUFACTURES-INDUSTRY STATISTICS

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				For industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3511—Steam engines and turbines, total.....	28	25	45,347	568,643	xxx	xxx	xxx	xxx
Old Industry 3511—Steam engines and turbines.....	25	23	43,979	558,885	25	23	43,979	558,885
All other industries <sup>2</sup> .....	3	2	1,368	4,758	xxx	xxx	xxx	xxx
New Industry 3519—Internal combustion engines, total.....	112	75	50,225	499,328	xxx	xxx	xxx	xxx
Old Industry 3519—Internal combustion engines.....	109	74	50,225	499,328	110	75	51,540	508,843
All other industries <sup>2</sup> .....	3	1			xxx	xxx	xxx	xxx
New Industry 3522—Farm machinery and equipment, total.....	1,469	509	108,586	1,087,836	xxx	xxx	xxx	xxx
Old Industry 3521—Tractors.....	92	41	31,656	368,447	129	68	60,327	779,524
Old Industry 3522—Farm machinery (except tractors).....	1,341	449	75,273	693,302	1,346	449	75,300	693,449
Old Industry 3563—Conveyors.....	22	16	1,121	13,061	(3)	(3)	(3)	(3)
All other industries <sup>2</sup> .....	14	3	536	13,026	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies. <sup>R</sup> Revised.

<sup>1</sup>These totals may represent slight revisions from the preliminary figures previously published for these industries.

<sup>2</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shift in their product classification to conform to the new SIC and because of classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>3</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3511	Steam engines and turbines, total....	28	25	45,347	274,589	29,319	57,791	172,091	568,643	961,769	20,492	(2)	(2)	(2)
3519	Internal combustion engines, total.....	112	75	50,225	277,186	35,771	69,988	184,161	499,328	1,055,699	40,699	(2)	(2)	(2)
351-	Engines and turbines, total.....	140	100	95,572	551,775	65,090	127,779	356,252	1,067,971	2,017,468	61,191	81,955	690,131	87,688
	New England.....	14	13	9,378	55,919	5,617	11,261	33,853	112,383	169,209	3,157	9,110	69,967	9,552
	Middle Atlantic....	24	15	32,420	196,993	22,162	43,263	128,574	414,659	732,070	15,564	26,665	245,100	19,045
	Pennsylvania....	12	10	20,493	121,753	13,428	26,119	74,203	236,430	422,825	9,381	15,434	124,264	11,204
	East North Central	63	49	46,048	255,474	32,085	62,021	166,775	458,503	965,506	40,867	41,488	336,023	52,326
	Michigan.....	18	13	11,309	67,248	7,886	15,308	43,546	110,199	238,247	(D)	11,778	111,916	14,356
	Wisconsin.....	25	21	18,218	96,295	12,977	25,128	64,764	183,373	363,930	6,872	14,048	115,038	17,901
	West North Central	11	7	3,166	16,033	2,371	5,230	11,261	26,711	55,857	655	2,867	19,061	2,721
	South Atlantic....	6	3	74	274	50	102	136	506	835	(3)	(4)	(4)	(4)
	West South Central	4	2	140	701	100	193	477	1,030	1,282	(3)	(4)	(4)	(4)
	West.....	18	11	4,346	26,381	2,705	5,709	15,176	54,179	92,709	913	(4)	(4)	(4)
3522	Farm machinery and equipment, total....	1,469	509	108,586	550,998	79,922	153,962	373,240	1,087,836	2,421,873	49,779	(2)	(2)	(2)
	New England.....	33	3	287	1,220	225	428	892	2,638	5,906	(3)	(2)	(2)	(2)
	Middle Atlantic....	98	40	6,780	34,076	4,346	8,747	20,345	72,355	145,899	1,881	(2)	(2)	(2)
	Pennsylvania....	43	17	3,885	20,583	2,459	5,258	12,738	49,403	94,798	1,090	(2)	(2)	(2)
	East North Central	407	195	55,944	292,468	40,461	78,416	196,609	584,379	1,370,654	24,560	(2)	(2)	(2)
	Ohio.....	78	38	5,273	25,157	4,070	8,094	16,948	45,043	116,634	1,923	(2)	(2)	(2)
	Indiana.....	57	31	4,850	23,980	3,418	6,548	15,157	44,014	99,387	1,536	(2)	(2)	(2)
	Illinois.....	118	72	26,730	144,615	20,097	38,703	100,918	285,018	615,145	13,692	(2)	(2)	(2)
	Michigan.....	62	17	4,786	25,978	3,391	6,391	16,846	78,642	201,526	3,240	(2)	(2)	(2)
	Wisconsin.....	92	37	14,305	72,738	9,485	18,680	46,740	131,662	337,962	4,169	(2)	(2)	(2)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expendi- tures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Farm machinery and equipment—Con.....													
	West North Central	376	137	29,186	148,823	22,525	43,585	105,676	293,825	615,992	12,332	(2)	(2)	(2)
	Minnesota.....	83	27	4,404	20,717	3,330	6,474	13,963	45,082	102,289	970	(2)	(2)	(2)
	Iowa.....	119	52	18,888	103,659	14,872	28,375	75,338	190,287	377,212	9,239	(2)	(2)	(2)
	Missouri.....	35	16	1,922	8,567	1,390	2,702	5,644	21,630	54,285	(3)	(2)	(2)	(2)
	Nebraska.....	53	17	1,661	6,784	1,195	2,494	4,452	14,445	31,979	587	(2)	(2)	(2)
	Kansas.....	67	19	1,953	7,703	1,445	2,901	5,214	19,215	43,203	1,005	(2)	(2)	(2)
	South Atlantic....	101	34	3,180	11,950	2,514	4,867	8,033	22,341	55,297	(D)	(2)	(2)	(2)
	Virginia.....	13	5	282	967	246	508	748	1,985	4,353	(3)	(2)	(2)	(2)
	North Carolina..	20	6	849	2,894	700	1,422	1,972	5,043	12,285	(3)	(2)	(2)	(2)
	Georgia.....	25	14	1,304	5,109	998	1,847	3,147	8,809	23,924	(3)	(2)	(2)	(2)
	Florida.....	30	4	260	963	176	349	628	2,113	5,068	(3)	(2)	(2)	(2)
	East South Central	59	22	6,876	34,041	5,161	9,032	23,137	62,006	123,615	(D)	(2)	(2)	(2)
	Alabama.....	17	7	587	2,123	464	858	1,207	4,099	9,863	(3)	(2)	(2)	(2)
	West South Central	99	25	2,087	7,367	1,598	2,825	4,786	13,733	29,082	563	(2)	(2)	(2)
	Louisiana.....	13	3	305	1,229	227	497	834	2,123	5,322	(3)	(2)	(2)	(2)
	Oklahoma.....	18	3	263	951	221	424	688	1,644	3,097	(3)	(2)	(2)	(2)
	Texas.....	63	18	1,473	5,063	1,116	1,853	3,187	9,712	20,159	(3)	(2)	(2)	(2)
	Mountain.....	65	10	763	3,149	606	1,109	2,232	6,406	12,622	594	(2)	(2)	(2)
	Idaho.....	24	5	237	942	193	346	682	1,686	3,657	(3)	(2)	(2)	(2)
	Colorado.....	20	3	320	1,559	249	488	1,032	3,374	6,126	(3)	(2)	(2)	(2)
	Utah.....	4	1	112	257	89	139	214	624	952	(3)	(2)	(2)	(2)
	Pacific.....	231	43	3,483	17,904	2,486	4,953	11,530	30,153	62,806	1,747	(2)	(2)	(2)
	Washington.....	29	5	322	1,468	239	436	995	2,430	5,447	(3)	(2)	(2)	(2)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 351, Engines and Turbines: New England—Massachusetts, 7 (8,496); Rhode Island, 1 (1-19); Connecticut, 6 (500-999); Middle Atlantic—New York, 7 (9,992); New Jersey, 5 (1,935); East North Central—Ohio, 9 (3,999); Indiana, 4 (3,937); Illinois, 7 (5,000 and over); West North Central—Minnesota, 3 (500-999); Iowa, 5 (1,832); Missouri, 3 (250-499); South Atlantic—North Carolina, 1 (20-99); Florida, 5 (20-99); West South Central—Louisiana, 1 (20-99); Oklahoma, 1 (1-19); Texas, 2 (20-99); West—Arizona, 2 (20-99); Washington, 1 (1-19); California, 15 (2,500-4,999). SIC 3522, Farm Machinery and Equipment: New England—Maine, 8 (20-99); New Hampshire, 1 (1-19); Vermont, 4 (20-99); Massachusetts, 12 (20-99); Connecticut, 8 (20-99); Middle Atlantic—New York, 38 (2,500-4,999); New Jersey, 17 (250-499); West North Central—North Dakota, 15 (250-499); South Dakota, 4 (20-99); South Atlantic—Delaware, 2 (20-99); Maryland, 4 (100-249); West Virginia, 3 (250-499); South Carolina, 4 (1-19); East South Central—Kentucky, 11 (3,486); Tennessee, 18 (2,371); Mississippi, 13 (250-499); West South Central—Arkansas, 5 (20-99); Mountain—Montana, 7 (20-99); New Mexico, 4 (1-19); Arizona, 6 (20-99); Pacific—Oregon, 21 (250-499); California, 181 (2,500-4,999).

<sup>2</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>This State or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

Item	Steam engines and turbines (SIC 3511)	Internal combustion engines (SIC 3519)	Farm machinery and equipment (SIC 3522)
Primary product specialization ratio <sup>1</sup> .....	78	90	90
Coverage ratio <sup>2</sup> .....	94	82	94
Number of establishments, total.....	28	112	1,469
With 1-19 employees.....	3	37	960
With 20-99 employees.....	4	24	351
With 100 employees or more.....	21	51	158
Proprietors and working partners.....Number..	1	19	822
All employees:			
Number (average for the year).....	45,347	<sup>r</sup> 50,225	108,586
Payroll.....\$1,000..	274,589	277,186	550,998
Production workers:			
Number (average for the year).....	29,319	35,771	79,922
March.....	31,486	40,831	82,669
May.....	30,016	37,519	82,004
August.....	28,811	34,471	77,831
November.....	26,959	37,737	77,708
Man-hours.....1,000..	57,791	69,988	153,962
January-March.....do....	15,826	19,609	40,564
April-June.....do....	15,179	17,639	41,502
July-September.....do....	13,270	15,235	36,003
October-December.....do....	13,516	17,485	35,200
Wages.....\$1,000..	172,091	184,161	373,240
Cost of materials, etc., total.....do....	361,126	544,072	1,318,416
Materials, parts, containers, and supplies consumed.....do....	328,353	507,924	1,183,592
Cost of resales.....do....	6,087	21,073	100,901
Fuels consumed.....do....	7,032	4,030	13,401
Electricity purchased.....do....	2,216	4,470	8,457
Contract work.....do....	17,438	6,575	12,065
Value of shipments (including resales), total.....do....	961,769	1,055,699	2,421,873
Value of resales.....do....	6,922	31,387	118,875
Value added by manufacture, adjusted.....do....	568,643	<sup>r</sup> 499,328	1,087,836
Manufacturers' inventories:			
Beginning of year, total.....do....	283,354	249,008	547,002
Finished products.....do....	33,593	67,945	200,648
Work-in-process.....do....	190,114	132,233	163,107
Materials, supplies, fuel, etc.....do....	59,647	48,830	183,247
End of year, total.....do....	236,009	230,687	516,026
Finished products.....do....	32,548	63,912	186,765
Work-in-process.....do....	159,159	124,172	161,369
Materials, supplies, fuel, etc.....do....	44,302	42,603	167,892
Expenditures for plant and equipment, total.....do....	22,021	52,549	53,080
New, total.....do....	20,492	40,699	49,779
New structures and additions to plant.....do....	3,109	9,673	12,212
New machinery and equipment.....do....	17,383	31,026	37,567
Used plant and equipment.....do....	1,529	11,850	3,301

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



# ENGINES AND TURBINES AND FARM MACHINERY AND EQUIPMENT

35A-9

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3511	Steam engines and turbines:											
	Number of establishments.....	28	...	...	3	1	3	6	1	4	4	6
	All employees:											
	Number.....	45,347	...	...	1,477	(D)	(D)	(D)	(D)	3,145	7,203	33,522
	Payroll.....\$1,000..	274,589	...	...	7,887	(D)	(D)	(D)	(D)	18,562	42,873	205,267
	Value added, adjusted..do....	568,643	...	...	14,318	(D)	(D)	(D)	(D)	38,322	61,642	454,361
	Value of shipments.....do....	961,769	...	...	25,339	(D)	(D)	(D)	(D)	68,523	133,571	734,336
	Capital expend., new...do....	20,492	...	...	(1)	(1)	(1)	(1)	(1)	912	3,253	15,923
3519	Internal combustion engines:											
	Number of establishments.....	112	18	12	7	21	4	14	8	11	12	5
	All employees:											
	Number.....	50,225	38	79	105	608	276	2,469	2,820	7,757	18,700	17,373
	Payroll.....\$1,000..	277,186	146	328	396	3,021	1,423	12,581	15,038	41,832	100,538	101,883
	Value added, adjusted..do....	499,328	401	635	541	4,872	6,796	21,610	20,695	68,686	182,470	192,622
	Value of shipments.....do....	1,055,699	792	1,474	952	9,898	7,548	51,743	40,486	171,348	357,170	414,288
	Capital expend., new...do....	40,699	(1)	(1)	(1)	(1)	(1)	504	1,478	1,570	8,451	28,360
3522	Farm machinery and equipment:											
	Number of establishments.....	1,469	485	258	217	241	110	91	24	21	14	8
	All employees:											
	Number.....	108,586	942	1,716	2,944	7,427	8,029	13,683	7,871	15,370	50,604	(D)
	Payroll.....\$1,000..	550,998	3,145	6,856	12,391	32,230	35,608	62,830	37,644	80,692	279,602	(D)
	Value added, adjusted..do....	1,087,836	8,000	14,879	22,855	60,870	68,612	129,623	79,236	139,723	564,038	(D)
	Value of shipments.....do....	2,421,873	19,438	33,037	51,434	136,018	163,962	299,869	209,367	387,420	1,121,328	(D)
	Capital expend., new...do....	49,779	1,578	1,040	1,363	2,935	2,765	3,825	2,815	5,572	27,886	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures of individual companies. <sup>1</sup>Revised.

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
						Col. B				Col. G
						Col. B+C (percent)				Col. F (percent)
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)	(\$1,000)	(\$1,000)	(\$1,000)	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
3511	Steam engines and turbines....1958..	961,769	705,567	198,039	58,163	78	753,988	705,567	48,421	94
3519	Internal combustion engines....1958..	1,055,699	909,790	97,856	48,053	90	1,115,996	909,790	206,206	82
	1954..	891,027	761,586	108,931	20,510	87	923,115	761,586	161,529	83
3522	Farm machinery and equipment...1958..	2,421,873	2,046,306	220,467	155,100	90	2,172,558	2,046,306	126,252	94

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Steam engines and turbines industry	Steam engines and turbines (SIC 3511)	Other industries	All industries
	Total shipments and receipts of the industry.....	961,769	xxx	xxx
	Primary products.....	705,567	<sup>1</sup> 48,421	753,988
35111	Steam, gas and hydraulic generator set units and parts.....	(D)	(D)	489,477
35112	Steam, gas and hydraulic turbines and parts, steam engines and parts.....	(D)	(D)	264,511
	Secondary products.....	198,039	xxx	xxx
34431	Heat exchangers and steam condensers.....	28,470	xxx	xxx
36216	Parts and supplies for motors, generators, and motor generator sets, except land transportation.....	4,594	xxx	xxx
3561-	Pumps and compressors.....	21,286	xxx	xxx
3566-	Mechanical power transmission equipment.....	8,628	xxx	xxx
	Other.....	<sup>2</sup> 135,061	xxx	xxx
	Miscellaneous receipts.....	58,163	xxx	xxx
	Contract and commission work.....	706	xxx	xxx
	Sales of products bought and resold.....	6,922	xxx	xxx
	Installation work by manufacturing plant employees.....	3,666	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	18,399	xxx	xxx
	Other (includes research and development).....	28,470	xxx	xxx
Prod. class code	Internal combustion engines industry	Internal combustion engines (SIC 3519)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,055,699	xxx	xxx
	Primary products.....	909,790	206,206	1,115,996
35191	Gasoline engines (except outboard, aircraft, automobile, truck, bus and tank).....	183,063	<sup>3</sup> 47,176	230,239
35192	Diesel and semi-Diesel engines.....	240,500	<sup>4</sup> 73,980	314,480
35193	Gas engines (except gas turbines).....	16,529	<sup>5</sup> 6,349	22,878
35195	Outboard motors.....	(D)	(D)	157,879
35196	Other internal combustion engines.....	24,200	<sup>6</sup> 6,825	31,025
35197	Parts and accessories for internal combustion engines.....	287,570	<sup>7</sup> 70,583	358,153
35190	Internal combustion engines, nsk.....	(D)	(D)	1,342
	Secondary products.....	97,856	xxx	xxx
36214	Prime mover generator sets, except steam or hydraulic.....	<sup>r</sup> 6,943	xxx	xxx
37175	Parts and accessories for passenger cars, trucks, and busses shipped to motor vehicle manufacturers.....	18,367	xxx	xxx
	Other.....	<sup>r</sup> 872,546	xxx	xxx
	Miscellaneous receipts.....	48,053	xxx	xxx
	Contract and commission work.....	3,890	xxx	xxx
	Sales of products bought and resold.....	31,387	xxx	xxx
	Research and development.....	6,967	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	4,105	xxx	xxx
	Other.....	1,704	xxx	xxx
Prod. class code	Farm machines and equipment industry	Farm machines and equipment (SIC 3522)	Other industries	All industries
	Total shipments and receipts of the industry.....	2,421,873	xxx	xxx
	Primary products.....	2,046,306	126,252	2,172,558
35222	Wheel tractors and parts and attachments (except garden and contractors' off-highway).....	643,103	<sup>9</sup> 44,168	687,271
35223	Planting, seeding, and fertilizing machinery.....	92,494	3,490	95,984
35224	Plows, listers, harrows, rollers, pulverizers, and stalk cutters and parts.....	156,936	3,640	160,576
35225	Harvesting machinery.....	317,949	3,485	321,434
35226	Haying machinery.....	180,821	1,715	182,536
35227	Lawn mowers.....	213,431	<sup>10</sup> 26,384	239,815
35228	All other farm machinery.....	407,922	<sup>11</sup> 42,314	450,236
35220	Farm machinery and equipment, nsk.....	33,650	1,056	34,706
	Secondary products.....	220,467	xxx	xxx
33214	All other gray iron castings.....	21,355	xxx	xxx
34432	Warm air furnaces.....	3,420	xxx	xxx
34436	Other heating equipment.....	2,110	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Farm machines and equipment industry	Farm machines and equipment (SIC 3522)	Other industries	All industries
	Secondary products--Continued			
3442-	Metal doors, sash and trim.....	3,006	xxx	xxx
3444-	Sheet-metal work.....	3,361	xxx	xxx
3461-	Metal stampings.....	4,997	xxx	xxx
3519-	Internal combustion engines.....	<sup>12</sup> 30,046	xxx	xxx
3531-	Construction machinery.....	<sup>13</sup> 50,410	xxx	xxx
3535-	Conveyors.....	2,568	xxx	xxx
3551-	Food products machinery.....	3,461	xxx	xxx
3553-	Woodworking machinery.....	2,687	xxx	xxx
3561-	Pumps and compressors.....	<sup>14</sup> 5,087	xxx	xxx
3792	Other transportation equipment.....	18,215	xxx	xxx
	Other.....	<sup>15</sup> 69,744	xxx	xxx
	Miscellaneous receipts.....	155,100	xxx	xxx
	Contract and commission work.....	8,237	xxx	xxx
	Sales of products bought and resold.....	118,875	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	16,666	xxx	xxx
	Other.....	11,322	xxx	xxx

D Withheld to avoid disclosing figures of individual companies. <sup>1</sup>Revised.

<sup>1</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: 3566, Power Transmission Equipment; 3621, Motors and Generators; 3721, Aircraft; 3722, Aircraft Engines and Parts; 3731, Ship Building and Repairing.

<sup>2</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 19110, Guns, howitzers, mortars, and related equipment over 30mm; 34412, Fabricated structural iron and steel for bridges; 34941, Metal valves for piping systems; 35595, Other special industrial machinery and equipment, nec; 35641, Industrial fans and blowers; 35690, General industrial machinery, nec; 35990, Carburetors, pistons and other machine shop products; 36122, Power and distribution transformers, except parts; 36131, Switchgear; 36212, Integral horsepower motors and generators, except land transportation; 36215, Motor-generator sets; 36292, Rectifying apparatus and 37413, Parts for locomotives, for sale separately, and rebuilt locomotives.

<sup>3</sup>Includes \$19,696 thousand shipped by Industry 3522, Farm Machinery and Equipment. In addition the following industries had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: 3621, Motors and Generators, and 3717, Motor Vehicles and Parts.

<sup>4</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: 3522, Farm Machinery and Equipment; 3531, Construction Machinery; 3561, Pumps and Compressors; 3717, Motor Vehicles and Parts; and 3741, Locomotives and Parts.

<sup>5</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: 3522, Farm Machinery and Equipment; and 3561, Pumps and Compressors.

<sup>6</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: 3531, Construction Machinery; 3561, Pumps and Compressors; and 3569, General Industrial Machinery, NEC.

<sup>7</sup>Includes \$21,169 thousand shipped by Industry 3531, Construction Machinery; \$2,147 thousand shipped by Industry 3561, Pumps and Compressors; and \$8,675 thousand, 3722, Aircraft Engines and Parts. In addition, the following industries had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: 3451, Screw Machine Products; 3522, Farm Machinery and Equipment; and 3553, Woodworking Machinery.

<sup>8</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 35370, Industrial trucks, tractors, trailers, and stackers; 35614, Air and gas compressors; 35990, Carburetors, pistons and other machine shop products; 37176, Parts and accessories for passenger cars, trucks, and busses, shipped to other than motor vehicle manufacturers; 37221, Aircraft engines for U.S. military customers and all missile engines; 37223, Other aeronautical services on aircraft and missile engines; 37224, Aircraft engine parts; and 37294, Receipts from research and development on missile components, nec.

<sup>9</sup>Includes \$26,791 thousand shipped by Industry 3531, Construction Machinery, and \$2,632 thousand shipped by Industry 3729, Aircraft Equipment, NEC; in addition the following industry had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: 3717, Motor Vehicles and Parts.

<sup>10</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: 1951, Small Arms; 3461, Metal Stampings; 3634, Electric Housewares and Fans; 3717, Motor Vehicles and Parts; and 3751, Motorcycles, Bicycles and Parts.

<sup>11</sup>Includes \$3,527 thousand shipped by Industry 3561, Pumps and Compressors and \$9,451 thousand shipped by Industry 3717, Motor Vehicles and Parts; in addition the following industries had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: 3545, Machine Tool Accessories; 3553, Woodworking Machinery; and 3634, Electric Housewares and Fans.

<sup>12</sup>Includes \$19,696 thousand for product class 35191, Gasoline engines, except outboard, aircraft, and automotive engines.

<sup>13</sup>Includes \$17,815 thousand for product class 35313, Parts and accessories for tracklaying and contractors' off-highway wheel tractors and \$8,082 thousand for product class 35319, Other construction machinery and equipment.

<sup>14</sup>Includes \$2,145 thousand for product class 35613, Domestic water systems and pumps.

<sup>15</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 19310, Tanks and tank components; 33220, Malleable iron castings and 37175, Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.





Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954	
		Total production  (number of units)	Shipments including interplant transfers			
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3522--	Farm machinery, total.....	xxx	xxx	2,172,558	xxx	1,693,778
	Wheel tractors.....	xxx	xxx	687,271	xxx	562,579
	As reported in the Census of Manufactures <sup>3</sup> .....	xxx	xxx	<sup>3</sup> 627,328	xxx	509,013
	As reported on Census Form MA-35T <sup>3</sup> .....	xxx	xxx	<sup>3</sup> 657,721	xxx	xxx
3522210	Wheel tractors (except contractors' off-highway type) <sup>7</sup> , garden tractors and motor tillers.....	241,269	239,161	494,131	253,673	396,466
	9-34 belt hp.....	50,894	47,675	70,521	135,666	161,147
	35-39 belt hp.....	44,075	45,377	80,391		
	40-49 belt hp.....	54,502	50,822	103,201	85,099	155,082
	50-54 belt hp.....	62,211	41,382	85,442		
	55-59 belt hp.....		30,998	89,165	32,908	80,237
	60 belt hp. and over.....	22,587	22,907	65,411		
3522220	Parts and attachments for wheel tractors (except contractors' off-highway type, garden tractors and motor tillers).....	xxx	xxx	163,590	xxx	112,547
	Attachments.....	xxx	xxx	53,814	xxx	31,464
	Parts (for replacement and repair).....	xxx	xxx	109,776	xxx	81,083
3522281	Parts sold to other plants producing wheel tractors (except contractors' off-highway type, garden tractors and motor tillers).....	xxx	xxx	59,943	xxx	53,566
	Farm machines and equipment.....	xxx	xxx	1,485,287	xxx	1,131,199
	As reported on the Census of Manufactures <sup>3</sup> .....	xxx	xxx	<sup>3</sup> 1,095,611	xxx	897,693
	As reported on Census Annual Form MA-35A <sup>3</sup> .....	xxx	xxx	<sup>3</sup> 1,077,129	xxx	xxx
3522300	Planting, seeding and fertilizing machinery and parts.....	xxx	xxx	101,197	xxx	93,593
	Corn planters:					
	Drawn:					
	1-row and 2-row.....	15,649	16,647	1,227	21,207	2,283
	3-row and larger.....	31,512	29,531	10,786	21,078	5,939
	Mounted:					
	1-row and 2-row.....	11,803	14,623	1,467	15,408	1,545
	3-row and larger.....	592	719	217		
	Corn and cotton planters:					
	Drawn.....	3,093	3,127	269	10,271	1,270
	Mounted:					
	1-row and 2-row.....	19,399	18,254	1,544	18,540	1,804
	3-row and larger.....	2,474	2,693	862	2,807	741
	Lister planting attachment units.....	(D)	2,406	306	3,788	862
	Potato planters, drawn or mounted.....	1,030	950	534	1,441	582
	Transplanters, drawn or mounted.....	7,477	7,598	1,463	8,733	1,407
	Grain drills, including legume planters:					
	Fertilizer.....	13,675	12,826	6,026	12,591	4,055
	Plain.....	10,817	10,310	3,733	13,769	4,902
	Broadcast seeders:					
	Hand-type.....	125,421	118,600	983	125,723	1,288
	End-gate, mounted, and drawn.....					
	Fertilizer distributors, drawn or mounted:					
	Dry.....	34,484	28,357	3,804	294,886	9,442
	Liquid.....	1,077	1,024	438		
	Anhydrous ammonia.....	2,260	2,239	1,196		
	Lime spreaders.....	3,026	3,654	792	8,946	1,413
	Manure spreaders:					
	2-wheel:					
	Power drive.....	23,864	24,344	10,611	13,487	5,717
	Ground drive.....	32,781	35,156	12,434	40,352	11,135
	4-wheel.....	(D)	646	207	2,144	804
	Loaders, manure and general utility (except hay, beet, and sugar cane loaders):					
	Front mounted.....	38,187	38,205	10,803	48,376	13,941
	Rear mounted.....	2,447	2,717	922	1,794	627
	Other planting, seeding, and fertilizing machinery.....	xxx	xxx	4,901	xxx	2,843
	Attachments.....	xxx	xxx	10,133	xxx	7,329
	Parts.....	xxx	xxx	15,539	xxx	10,492
	Planting, seeding, and fertilizing machinery, including parts and attachments, nsk.....	xxx	xxx	xxx	xxx	3,172

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954	
		Total production  (number of units)	Shipments including interplant transfers			
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3522---	Farm machinery—Continued Farm machines and equipment—Continued As reported on Census Annual Form MA-35A <sup>3</sup> —Continued					
3522400	Plows, listers, harrows, rollers, pulverizers and stalk cutters and parts.....	xxx	xxx	165,962	xxx	137,111
3522410	Harrows, rollers, pulverizers, and stalk cutters.....	xxx	xxx	92,054	xxx	70,605
	Harrows:					
	Spike-tooth harrow sections.....	136,521	140,410	3,616	242,483	4,528
	Spring-tooth harrow sections.....	74,211	75,111	2,828	93,766	2,398
	Disc harrows:					
	Single (2 gang):					
	Drawn.....	2,476	3,148	680	8,009	1,469
	Mounted.....	3,559	3,733	618	7,528	720
	Tandem (4 gang):					
	Drawn:					
	Wheel type.....	57,018	56,897	24,542	32,426	11,016
	Other.....	10,669	10,718	2,832	47,743	9,497
	Mounted.....	21,938	21,465	4,004	28,024	3,924
	Offset:					
	Drawn:					
	Wheel type.....	5,823	5,789	3,169	2,570	1,217
	Other type.....	6,920	7,001	4,973	9,741	3,583
	Mounted.....	3,186	3,485	851	2,129	382
	Brush and bog.....	1,055	1,212	229	6,509	1,240
	Other harrows.....	3,473	3,550	591		
	Soil pulverizers, packers, and land rollers.....	13,123	12,516	2,637	18,750	3,186
	Stalk cutters (ground driven).....	874	951	285	12,705	2,896
	Stalk shredders, and stalk cutters, or rotary mowers (power take-off driven).....	53,957	52,259	16,145	14,844	4,968
	Blade terracers or scrapers (farm size):					
	Wheel type.....	3,698	3,703	2,155	11,457	2,221
	Other.....	33,775	33,684	2,892	13,103	1,045
	Land levelers.....	5,616	5,456	2,502		
	Other rollers, pulverizers, and similar equipment.....	4,372	4,479	949	6,395	2,095
	Attachments.....	xxx	xxx	4,737	xxx	2,970
	Parts.....	xxx	xxx	10,819	xxx	9,773
	Harrows, rollers, pulverizers and stalk cutters includ- ing parts and attachments, nsk.....	xxx	xxx	xxx	xxx	1,477
3522420	Plows and listers.....	xxx	xxx	73,908	xxx	66,506
	Moldboard plows:					
	Horse drawn.....	16,633	17,008	235	39,998	479
	Tractor drawn, 1-way:					
	1-bottom.....	2,047	2,163	55	11,591	1,766
	2-bottom.....	5,557	4,894	1,044		
	3-bottom.....	20,559	20,396	6,301	21,413	4,916
	4-bottom.....	14,556	14,521	6,262	9,168	3,329
	5-bottom and larger.....	3,567	3,449	2,136		
	Tractor drawn, 2-way:					
	2-bottom, 1 furrow.....	...	...	...	2,660	892
	4-bottom, 2 furrow.....	1,412	1,290	539		
	Mounted, 1-way:					
	1-bottom.....	2,957	3,047	182	4,958	232
	2-bottom.....	19,896	22,051	2,840	36,107	3,802
	3-bottom.....	26,048	31,338	6,861	29,121	5,154
	4-bottom and larger.....	8,709	11,087	3,628		
	Mounted, 2-way.....	3,930	4,252	1,415	3,317	584
	Disc plows, drawn:					
	1-, 2-, and 3-disc.....	2,876	3,133	577	8,145	1,441
	4-disc and larger.....	2,325	2,544	1,749	5,854	2,683
	Disc plows, mounted:					
	1- and 2-disc.....	1,204	1,658	290	9,786	1,682
	3- disc and larger.....	3,398	2,975	1,014		

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954		
		Total production  (number of units)	Shipments including interplant transfers				
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)	
3522---	Farm machinery—Continued						
	Farm machines and equipment—Continued						
	As reported on Census Annual Form MA-35A <sup>3</sup> —Continued						
3522-00	Plows, listers, harrows, rollers, pulverizers and stalk cutters and parts—Continued						
3522-00	Plows and listers—Continued						
	One-way disc plows or tillers:						
	Width of cut under 5 feet.....	827	1,014	277	3,330	503	
	Width of cut 5 feet and larger.....	4,496	4,754	2,785	6,286	2,773	
	Subsoilers (deep tillage).....	7,750	7,902	1,925	15,520	2,184	
	Terracing and ditching plows.....	4,071	3,943	634	7,546	794	
	Rotary-tiller plows, field type.....	3,366	3,477	1,037	7,026	905	
	Other plows.....						
	Listers, with or without planting attachments.....	15,140	12,969	2,367	6,191	615	
	Attachments for plows and listers, except planting attachments.....	xxx	xxx	7,123	xxx	7,148	
	Plow shares (quantity in thousands of pounds).....	359,580	38,128	9,923	40,308	9,268	
	Parts for plows and listers, except plow shares.....	xxx	xxx	12,709	xxx	14,188	
	Plows, listers, including parts and attachments, nsk....	xxx	xxx	xxx	xxx	1,168	
3522500	Harvesting machinery and parts.....	xxx	xxx	311,916	xxx	252,566	
	Combines (harvester-threshers):						
	Pull type:						
	6 feet and under.....	6,574	6,745	7,485	25,028	24,578	
	Over 6 feet and under 9 feet.....	14,464	14,048	19,009	10,467	11,609	
	9 feet and under 12 feet.....	1,132	1,271	3,234	1,957	4,010	
	12 feet and over.....				2,211	5,090	
	Self-propelled:						
	Under 12 feet.....	6,958	7,030	24,029	18,137	63,981	
	12 feet and under 15 feet.....	18,009	17,963	79,141			
	15 feet and over.....						
	Corn picking units (attachments for combines).....	5,974	6,094	5,611	( <sup>8</sup> )	( <sup>8</sup> )	
	Windrowers and swathers:						
	Pull type.....	555	1,031	514	6,273	3,670	
	Self-propelled.....	(D)	2,880	4,795			
	Corn pickers:						
	Drawn:						
	1-row.....	4,872	5,342	4,321	4,363	3,406	
	2-row.....	5,240	4,926	6,262	6,008	5,389	
	Mounted or semimounted:						
	1-row.....	24,600	25,443	32,653	25,905	27,831	
	2-row.....						
	Picker-shellers (drawn, mounted or self-propelled).....	4,767	4,621	2,017	( <sup>9</sup> )	( <sup>9</sup> )	
	Potato diggers.....	1,176	1,237	762	1,040	474	
	Potato harvesters.....	568	581	2,304	345	799	
	Beet harvesters.....	2,277	2,277	3,563	1,824	3,510	
	Peanut diggers, shakers, and windrowers.....	1,493	1,431	469	(10)	(10)	
	Peanut combines.....	1,933	1,769	4,316			
	Field forage harvesters:						
	Shear bar type (rigid knives or vertical combination):						
	Basic machines:						
	Engine drive.....	1,830	1,698	2,034	63,670	27,889	
	Power take-off.....	9,327	11,539	10,943			
	Attachments for shear bar type forage harvesters:						
	Pick-up hay unit.....	3,762	3,636	812	63,670	27,889	
	Cutter bar hay unit.....	4,670	5,569	2,026			
	Row crop unit.....	9,864	9,478	3,207			
	Flail type (horizontal knives or vertical free-swinging knives or hammers) including discharge spouts.....	11,503	10,570	7,163			
	Cotton strippers.....	2,149	2,339	2,115	1,023	730	
	Cotton pickers.....	1,107	1,139	8,781	2,735	8,526	
	Other harvesting machinery.....	3,819	4,323	6,790	8,717	5,687	
	Attachments.....	xxx	xxx	24,217	xxx	13,864	
	Field shelling attachments for corn pickers, including conversion packages.....						
	Parts.....						
	Harvesting machinery, including parts and attachments, nsk	xxx	xxx	43,343	xxx	32,959	
		xxx	xxx	xxx	xxx	8,564	

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954			
		Total production  (number of units)	Shipments including interplant transfers					
			Quantity  (number of units)	Value  (\$1,000)	Quantity  (number of units)	Value  (\$1,000)		
3522---	Farm machinery—Continued							
	Farm machines and equipment—Continued							
3522600	Haying machinery.....	xxx	xxx	175,860	xxx	147,883		
	Mowers, cutter-bar type:							
	Drawn.....	12,543	13,133	3,457	7,174	1,624		
	Semimounted.....	34,245	34,789	8,623	74,485	12,606		
	Mounted.....	40,046	41,500	6,954				
	Rakes:							
	Sulky (dump).....	4,405	2,569	367	4,869	433		
	Side delivery (revolving wheel-type).....	}	39,855	39,487	12,471	62,043		
	Side delivery (including combination side rakes and tedders) cylinder type:							
	Drawn.....							
	Mounted and semimounted.....							
	Mounted and semimounted.....	17,141	16,486	4,951		14,542		
	Hay stackers.....	2,724	3,030	1,938	5,555	3,125		
	Pick-up hay balers:							
	Wire:							
	Engine driven.....	4,719	3,921	8,562	}	8,896		
	Tractor power take-off.....	4,222	3,857	5,458				
	Twine:							
	Engine driven.....	9,937	9,121	15,385	25,580	32,184		
	Tractor power take-off.....	51,798	52,229	60,190	34,727	33,274		
	Hay bale loaders (field type).....	4,220	4,301	1,108	5,705	1,216		
	Hay crushers and field hay conditioners.....	32,476	31,698	15,571	}	xxx		
	Other haying machinery.....	xxx	xxx	956				
	Attachments.....	xxx	xxx	5,586	xxx	4,276		
	Parts.....	xxx	xxx	24,283	xxx	22,964		
	Haying machinery, including parts and attachments, nsk.....	xxx	xxx	xxx	xxx	4,694		
	All other farm machines and equipment.....	xxx	xxx	322,194	xxx	266,540		
3522810	Farm dairy machines and equipment.....	xxx	xxx	20,211	xxx	22,183		
	Mechanical installations:							
	Pumping outfits, stationary.....	}	32,752	32,607	3,163	27,162		
	Pumping outfits, portable.....							
	Pail-type milking machines:							
	Suspended units.....	58,071	57,809	4,304	71,424	3,960		
	Floor type (single unit).....	16,769	16,505	1,219	17,262	1,634		
	Floor type (double unit).....	1,124	1,133	152	2,024	259		
	Pipeline milker units (individual clusters).....	17,052	16,773	3,681	6,805	1,451		
	Cream separators, hand or power operated:							
	Capacity 500 pounds or less per hour, including bench type.....	}	(D)	1,326	139	6,198		
	Capacity 501-800 pounds per hour.....					}	13,859	2,366
	Capacity 801-1,500 pounds per hour.....							
	Farm milk coolers, not mechanically refrigerated.....	662	662	47	3,916	298		
	Butter churns, farm size.....	}	57,847	57,775	450	xxx		
	Other farm dairy machines and equipment.....					xxx	948	
	Attachments.....	}	xxx	xxx	7,056	xxx		
	Parts.....					xxx	195	
	Farm dairy machines and equipment, including parts and attachments, nsk.....	xxx	xxx	xxx	xxx	8,286		
		xxx	xxx	xxx	xxx	356		
3522815	Cultivators and weeders, total.....	xxx	xxx	48,552	xxx	42,584		
	Corn and cotton type cultivators:							
	Horse-drawn.....	5,441	6,000	74	26,674	370		
	Tractor-drawn.....	1,951	1,626	289	7,986	706		
	Mounted:							
	1-row.....	7,966	8,081	572	12,657	736		
	2-row.....	21,417	26,224	3,689	45,226	6,193		
	4-row.....	}	35,373	32,938	12,420	19,841		
	6-row and larger.....							
	Beet, bean, and vegetable cultivators, drawn or mounted...	2,584	2,593	296	}	79,916		
	Rotary hoe cultivator sections, drawn or mounted.....	83,284	76,268	5,735				
	Stubble mulchers or tillers, chisel or sweep type.....	1,150	1,132	329	3,516	922		
	Field cultivators and field tillers, drawn or mounted.....	8,349	8,649	2,052	12,654	2,097		

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954	
		Total production  (number of units)	Shipments including interplant transfers		Quantity (number of units)	Value (\$1,000)
			Quantity (number of units)	Value (\$1,000)		
3522---	Farm machinery—Continued Farm machines and equipment—Continued All other farm machines and equipment—Continued Cultivators and weeders—Continued					
	Tool bar carriers:					
	Drawn.....	6,509	6,373	2,273	5,960	1,933
	Mounted.....	13,191	11,597	871	9,445	782
	Weeders, drawn or mounted:					
	Rod.....	5,184	3,731	694	3,212	554
	Toothed.....				3,400	119
	Other cultivators and weeders.....	xxx	xxx	2,714	xxx	1,983
	Attachments.....	xxx	xxx	8,117	xxx	6,861
	Parts.....	xxx	xxx	8,427	xxx	7,363
3522821	Machines for preparing crops for market or use.....	xxx	xxx	44,166	xxx	33,892
	Stationary threshers (except peanut).....	368	430	760	567	1,037
	Peanut pickers and threshers.....				1,034	1,373
	Corn shellers, power:					
	Capacity less than 150 bushels per hour.....	423	547	65	5,474	1,329
	Capacity 150 to 500 bushels per hour.....	2,415	2,333	900		1,744
	Capacity over 500 bushels per hour.....	919	1,075	1,534	1,455	
	Ensilage cutters (silo fillers).....	(D)	455	173	1,178	374
	Feed grinders and crushers, power (farm size):					
	Hammer mills, with hammers only.....	9,238	9,571	1,970	15,095	2,877
	Burr mills, with grinding plates only.....	5,965	5,983	1,851	10,173	1,133
	Combination roughage mills.....	5,269	6,002	2,039	5,311	1,368
	Feed mixers (farm size).....	9,662	9,308	2,673	7,359	1,167
	Grain and corn graders and cleaners (farm size).....	2,343	2,393	388	(10)	(10)
	Tobacco curers.....	3,812	5,491	646	16,432	1,337
	Driers, grain, hay, and seed:					
	Heated air crop driers.....	8,802	7,477	11,696	1,322	2,286
	Crop drying fans (over 15,000 CFM at approximately 1 inch pressure).....	5,572	5,155	709		
	Other machines for preparing crops for market or for use..	xxx	xxx	9,713	xxx	8,552
	Attachments.....	xxx	xxx	5,357	xxx	4,291
	Parts.....	xxx	xxx	3,692	xxx	5,024
3522831	Farm poultry equipment.....	xxx	xxx	41,302	xxx	25,566
	Incubators (quantity in total egg capacity):					
	1,000-egg capacity and smaller.....	1,506,747	1,506,779	276	2,055,160	262
	1,001-19,999-egg capacity.....	7,897,127	7,666,790	1,277	7,354,487	1,036
	20,000-egg capacity and larger.....	39,539,984	37,600,416	5,034	17,858,702	2,481
	Brooders, floor:					
	Electric.....	94,482	100,275	459	185,489	1,086
	Oil.....	24,302	25,510	864	25,610	614
	Gas.....	111,463	115,570	3,620	68,533	1,918
	Coal and wood.....	12,622	12,433	437	5,461	168
	Brooders, battery (quantity in number of decks).....	15,210	12,397	282	26,921	485
	Growing batteries (quantity in number of decks).....	3,709	4,341	51	12,352	200
	Nests, hens', trap and laying (quantity in number of openings).....	1,652,376	1,670,326	2,662	499,208	2,278
	Laying cages.....	500,140	480,212	566	(11)	(11)
	Poultry feeders:					
	Trough type.....	1,847,923	1,890,136	2,945	3,288,122	3,866
	Hanging type.....	1,782,063	1,874,910	3,431		2,111
	Automatic.....	17,282	17,345	7,585	3,615	
	Poultry waterers:					
	Trough type.....	537,191	530,027	3,200	2,388,869	964
	Others.....	1,735,204	2,194,963	3,105	1,239,701	2,557
	Other farm poultry equipment.....	xxx	xxx	2,936	xxx	2,978
	Attachments.....	xxx	xxx	743	xxx	534
	Parts.....	xxx	xxx	1,829	xxx	2,028

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954	
		Total production  (number of units)	Shipments including interplant transfers		Quantity  (number of units)	Value  (\$1,000)
			Quantity  (number of units)	Value  (\$1,000)		
3522---	Farm machinery—Continued Farm machines and equipment—Continued All other farm machines and equipment—Continued					
3522841	Barn and barnyard equipment.....	xxx	xxx	48,679	xxx	29,598
	Feed and litter carriers (overhead).....	1,754	1,661	116	2,981	175
	Feed trucks.....	3,592	3,793	243	2,949	215
	Dairy cattle stalls for use with stanchions.....	77,810	77,832	121,193	103,764	121,152
	Chain tie stalls (all types).....	33,141	33,084	657	17,548	238
	Milking parlor stalls.....	11,769	11,825	1,111	6,638	562
	Panel type milking or feeding stalls.....	10,113	9,991	141	14,050	319
	Stanchions, swing type.....	181,444	181,610	1,096	222,437	1,052
	Livestock pens (quantity in number of feet).....	67,484	67,510	409	97,641	445
	Livestock water bowls, inside.....	266,600	264,086	1,490	279,016	1,209
	Barn cleaners.....	12,364	12,477	11,229	5,109	4,087
	Other barn equipment.....	xxx	xxx	1,119	xxx	1,352
	Attachments.....	xxx	xxx	371	xxx	849
	Parts.....	xxx	xxx	1,218	xxx	1,201
	Silo unloaders.....	5,416	5,487	5,002	} (13)	(13)
	Mechanical feeders.....	4,811	4,770	612		
	Animal stock tanks.....	139,784	142,783	3,565	168,889	3,717
	Hog troughs.....	152,483	159,063	289	191,605	467
	Livestock outside watering bowls.....	33,040	33,269	1,600	24,853	541
	Hog waterers.....	224,738	225,974	2,786	157,084	2,504
	Livestock water heaters.....	101,507	103,006	1,233	70,789	858
	Hog feeders:					
	Metal.....	229,449	224,168	8,380	128,412	4,719
	Wood.....	12,560	12,386	682	30,282	1,077
	Other barnyard equipment.....	xxx	xxx	3,372	xxx	2,171
	Attachments.....	xxx	xxx	260	xxx	229
	Parts.....	xxx	xxx	505	xxx	459
3522851	Farm blowers.....	xxx	xxx	4,759	xxx	3,929
	Grain blowers (farm size).....	454	651	134	} 8,714	2,645
	Forage blowers including combination grain and forage blowers.....	8,206	7,976	3,684		
	Attachments.....	xxx	xxx	421	xxx	575
	Parts.....	xxx	xxx	520	xxx	709
3522871	Farm elevators.....		xxx	34,221	xxx	33,143
	Farm elevators (portable):					
	Single chain.....	24,210	24,051	2,312	17,039	2,636
	Double chain.....	48,816	48,191	15,798	48,225	15,260
	Auger type.....	140,987	142,085	10,252	103,729	6,507
	Farm elevators (stationary):					
	Bucket size 12" and smaller.....	547	547	225	} 2,116	1,607
	Bucket size 13" and wider.....	725	720	647		
	Other farm elevators.....	(NA)	(NA)	14,584	xxx	1,762
	Attachments for farm elevators.....	xxx	xxx	1,897	xxx	3,385
	Parts for farm elevators.....	xxx	xxx	2,506	xxx	1,986
3522881	Garden tractors and motor tillers.....	224,266	227,073	26,492	191,235	24,844
	Garden tractors (except motor tillers).....	50,918	52,583	10,830	116,153	17,583
	Riding type.....	13,661	12,643	3,724	7,051	2,335
	Under 6 engine hp.....	6,395	6,426	1,504	2,665	681
	6 and under 8 engine hp.....	5,377	4,304	1,588	2,996	1,019
	8 engine hp. and over.....	1,889	1,913	632	1,390	635
	Walking type (except riding attachments).....	37,257	39,940	7,106	109,102	15,248
	2 engine hp. and under.....	2,807	2,664	249	35,607	3,635
	Over 2 engine hp. but not over 6 engine hp.....	27,632	30,768	5,484	} 73,495	11,613
	Over 6 engine hp.....	6,818	6,508	1,373		
	Motor tillers.....	173,348	174,490	15,662	75,082	7,261
	2 engine hp. and under.....	21,904	22,444	1,964	51,949	4,428
	Over 2 engine hp.....	151,444	152,046	13,698	23,133	2,833
3522885	Parts and attachments for garden tractors and motor tillers	xxx	xxx	12,774	xxx	13,128
	Attachments.....	xxx	xxx	9,162	xxx	9,705

See footnotes at end of table.



# ENGINES AND TURBINES AND FARM MACHINERY AND EQUIPMENT

35A-19

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954			
		Total production  (number of units)	Shipments including interplant transfers					
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)		
3522---	Farm machinery—Continued							
	Farm machines and equipment—Continued							
	All other farm machines and equipment—Continued							
3522885	Parts and attachments for garden tractors and motor tillers—Continued							
	Attachments—Continued							
	Except riding attachments for walking type.....	xxx	xxx	8,978	xxx	9,366		
	Riding attachments for walking type.....	xxx	xxx	184	xxx	339		
	Parts.....	xxx	xxx	3,612	xxx	3,423		
3522891	Sprayers and dusters.....	xxx	xxx	41,038	xxx	37,673		
	Power sprayers:							
	Plunger-type pump, except self-propelled:							
	Under 4 gallons per minute:							
	Skid mounted.....	1,214	1,283	337	}	}		
	Wheel mounted.....	8,045	8,357	1,245				
	4 GPM and under 8 GPM:							
	Field and row crop:							
	Direct PTO tractor mounted.....	3,374	3,441	531				
	Except tractor mounted.....	5,217	5,245	2,863				
	Other types.....	1,120	1,175	524				
	8 GPM and over:							
	Field and row crop:							
	Direct PTO tractor mounted.....	2,757	2,694	656				
	Except tractor mounted.....	1,630	1,585	856				
	Other types.....	5,022	4,704	1,700	}	}		
	Other than plunger-type pump, except self-propelled:							
	Field and row crop-direct PTO tractor mounted.....	48,815	42,900	4,115				
	Air blast type:							
	Field and row crop:							
	36 hp. and under.....	}	(D)	280			{	
	Over 36 hp.....							
	Orchard and general purpose:							
	36 hp. and under.....	235	218	252				
	Over 36 hp.....	894	893	3,219				
	Air blast blower adapter.....	}	1,664	1,697	{			
	Other types.....							
	Self-propelled sprayers.....	2,205	2,144	2,550				
	Hand sprayers, agricultural (except flame):							
	Under 1 gallon.....	4,454,109	4,711,495	2,592	}			
	1 gallon and over:							
	Compressed air or gas.....	904,846	927,873	5,649				
	Knapsack (liquid pump).....	41,733	42,964	630				
	Wheelbarrow.....	6,798	6,495	191				
	Flame sprayers, hand.....	36,466	37,269	288	21,304	334		
	Spray pumps:							
	Power driven, plunger type.....	23,868	23,856	1,327	25,247	1,330		
	Power driven, except plunger type.....	95,867	97,606	449	36,164	341		
	Hand driven.....							
	Dusters:							
	Power:							
	Engine-driven.....	330	357	157	}			
	Tractor power take-off.....	5,535	5,307	665				
	Traction, all types.....	1,683	1,566	195	1,945	205		
	Hand type:							
	Crank or knapsack.....	14,918	17,016	293	26,426	389		
	Plunger type.....	317,931	358,243	397	630,025	608		
	Attachments.....	xxx	xxx	1,349	xxx	1,203		
	Parts.....	xxx	xxx	6,472	xxx	7,174		
	Other sprayers and dusters.....	}	xxx	xxx	xxx	1,180		
	Sprayers and dusters, including parts and attachments, nsk							

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954	
		Total production  (number of units)	Shipments including interplant transfers			
			Quantity  (number of units)	Value  (\$1,000)	Quantity  (number of units)	Value  (\$1,000)
3522---	Farm machinery—Continued					
	Windmill heads and windmill towers:					
	As reported in the Census of Manufactures <sup>3</sup> .....	xxx	xxx	32,563	}	(15)
	As reported on Census Monthly Form M35G, <sup>3</sup> .....	xxx	10,054	31,472		
3522861	Windmill heads.....	xxx	6,983	987		
	Windmill towers.....	xxx	3,071	485		
35227--	Lawn mowers, including parts and attachments.....	xxx	xxx	239,815	xxx	138,420
3522711	Hand (reel type).....	354,872	391,412	5,341	973,454	14,196
	Power:					
	Reel type:					
3522723	Nonriding.....	288,096	305,657	20,978	}	492,241
3522725	Integral riding.....	14,457	18,569	4,138		
3522741	Rotary type:					
	Hand traction.....	2,092,079	2,250,288	99,776	1,150,481	57,467
	Power traction:					
3522753	Nonriding.....	1,060,172	1,114,755	54,669	}	159,383
3522755	Integral riding.....	148,244	142,739	23,505		
3522771	Parts for lawn mowers.....	xxx	xxx	15,681	}	xxx
3522798	Other (include gang-cutting units, sickle-bar mowers shipped as complete units, lawn edgers, and special cutting units).....	xxx	xxx	9,800		
3522700	Lawn mowers, nsk.....	xxx	xxx	5,927		
3522887	Hedge trimmers and shears, power:					
	Quantity reported.....	xxx	125,324	2,478	}	(NA)
	Quantity not reported.....	xxx	xxx	335		
3522898	Other farm machines, equipment, attachment and parts, including parts sold to other plants producing farm equipment..	xxx	xxx	80,944	xxx	81,732
3522800	All other farm machines and equipment, including parts and attachments, nsk.....	xxx	xxx	28,835	xxx	13,354
3522000	Farm machinery, nsk.....	xxx	xxx	34,706	xxx	xxx

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Includes the value of gears.

<sup>2</sup>Figures for gas turbines and parts and accessories for gas turbines were included, respectively, with "Other internal combustion engines," and "Parts and accessories for internal combustion engines" (see product codes 3519620, 3519650, and 3519715).

<sup>3</sup>For these products, figures for 1958 were also collected in the Bureau of the Census annual commodity survey program. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected in the annual survey. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were minor differences between the Census figures and the annual survey figures. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting figures on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.

<sup>4</sup>Includes dual fuel engines.

<sup>5</sup>Includes the value of tank engines and converted engines.

<sup>6</sup>Includes the value of gas turbines, tank engines, and converted engines.

<sup>7</sup>The horsepower rating for these tractors is based on the Nebraska test corrected maximum felt horsepower.

<sup>8</sup>Included with "Attachments for harvesting machinery."

<sup>9</sup>Included with "Other harvesting machinery."

<sup>10</sup>Included with "Other machines for preparing crops for market or for use."

<sup>11</sup>Included with "Other farm poultry equipment."

<sup>12</sup>Excludes value of stanchions shipped with stalls.

<sup>13</sup>Included with "Other barnyard equipment."

<sup>14</sup>Includes a small value of farm blowers.

<sup>15</sup>Included with "All other farm machines and equipment."



Table 6B.—Number of Turbines and Turbine Gear Units Shipped, by Type and by Horsepower Capacity: 1958 and 1954

Item	Marine (including Navy) mechanical drive steam turbines		Mechanical drive steam turbines, other than Marine		Marine (including Navy) steam turbine gear units		Steam turbine gear units, other than Marine		Hydraulic turbines	
	1958	1954	1958	1954	1958	1954	1958	1954	1958	1954
Number of units, total.....	412	259	2,471	3,853	456	300	376	481	78	120
By rated horsepower capacity:										
Under 10.....			355	807	...			53		
10-19.....			362	503	...	200	103	36		
20-49.....	218	93	674	741				69		
50-99.....			231	636	96		57	65		34
100-199.....			407	537			98	139		
200-499.....	111	150	165	335	59		52	74	27	
500-999.....			128	175	218	100	48	33		
1,000-4,999.....	83	16	125	108			18	12		26
5,000-9,999.....			24	11			...	...		14
10,000-24,999.....					83		...	...		14
25,000-34,999.....	...	...	...	...			...	...	51	32
35,000 and over.....			...	...			...	...		
Total rated horsepower capacity (1,000).....	260	132	674	743	1,600	520	93	81	3,782	2,843
Value of shipments (\$1,000).....	20,104	3,809	19,533	16,184	170,250	120,774	13,983	12,755	39,594	34,507

<sup>1</sup>Includes the value of gears.

Table 6C.—Number of Internal Combustion Engines (Including Automotive and Aircraft but Excluding Outboard) Produced: 1958 and 1954

Type of engine	Total number of engines produced	
	1958	1954
Gasoline and other carburetor, total.....	13,313,112	10,674,029
Automotive (automobile, truck and bus).....	7,547,000	6,999,000
Aircraft other than military (except gas turbine).....	10,233	5,524
All other.....	5,755,879	3,669,505
Diesel and semi-Diesel, total.....	163,227	120,388
Automotive.....	31,491	15,702
All other.....	131,736	104,686
Gas (except gas turbine).....	14,929	10,691

## MANUFACTURES-INDUSTRY STATISTICS

Table 6D.--Quantity and Value of Gasoline Engines (Except Automotive, Aircraft and Outboard) Shipped and Quantity Produced and Incorporated into Other Products, by Horsepower Rating and Piston Displacement: 1958 and 1954

Size group	Total number of engines <sup>1</sup>	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of engines produced and											
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)	incorporated into products of same plant											
HORSEPOWER RATING	1958																		
Total.....	5,755,879	5,206,921	230,069	5,124,994	205,461	81,927	24,608	548,958											
Under 3.....	3,679,168	3,475,358	74,199	4,818,669	114,071	21,258	595	{	203,810										
3.0-3.9.....	1,178,132	1,125,534	27,753						52,598										
4.0-6.9.....	378,391	239,035	12,714						139,355										
7.0-10.9.....	126,746	117,019	10,185						9,727										
11-15.....	43,201	27,350	5,841	57,724	15,099	3,504	1,253	{	15,851										
16-30.....	58,803	33,878	10,511						24,925										
31-45.....	93,483	54,701	15,793						38,782										
46-60.....	97,599	39,437	11,294	35,318	9,570	19,383	6,223	{	58,162										
61-70.....	22,983	20,028	9,184						39,649	12,002	19,816	8,476	2,955						
71-80.....	77,345	16,807	8,031	56,587	43,918	17,966	8,061	{	2,792										
81-90.....		3,935	1,927																
91-100.....		17,414	6,457																
101-150.....		20,960	13,235																
151-200.....		11,851	15,520																
201-300.....	28	3,586	6,809	28	616	...	...	{	...										
301 and over.....		28	616																
PISTON DISPLACEMENT (cubic inches)	1958																		
Total.....	5,755,879	5,206,921	230,069	5,124,994	205,461	81,927	24,608	548,958											
Under 11.....	5,081,500	4,703,846	106,127	4,684,515	105,595	19,331	532	{	377,654										
11-30.....	269,076	237,928	16,060						31,148										
31-50.....	123,976	15,209	2,586						311,626	33,939	6,040	1,457	{	44,238					
51-75.....		31,477	6,755																
76-100.....		5,391	1,662																
101-125.....		27,661	8,333																
126-150.....	76,661	50,443	14,258	31,251	8,136	19,192	6,122	{	26,218										
151-225.....	141,851	57,389	18,281						55,411	51,283	37,364	16,497	{	47,071					
226-250.....		37,391	17,490																
251-300.....		19,045	8,720																
301-350.....		10,347	8,067																
351-500.....	62,776	7,368	13,536	2,152	5,833	...	...	{	22,629										
501-600.....		1,235	1,686																
601-2,000.....		2,152	5,833																
2,001 and over.....		39	675						39	675	...	...	...						
HORSEPOWER RATING	1954																		
Total.....	2,702,946	3,064,428	192,541	2,993,575	179,323	70,853	13,218	638,518											
Under 2.....	1,596,000	1,349,653	31,079	2,498,781	61,770	37,337	1,533	{	246,347										
2.0-2.9.....	1,228,569	1,186,465	32,224						42,104										
3.0-3.9.....	127,247	68,424	3,147						58,823										
4.0-5.9.....	187,189	106,788	7,462						80,401										
6.0-6.9.....	11,106	7,725	581	106,788	7,462	...	...	{	3,381										
7.0-7.9.....	59,751	1,193	772						1,193	772	...	...	5,336						
8.0-9.9.....		53,222	4,831						53,222	4,831	...	...	7,812						
10.0-10.9.....		15,944	8,132						8,132	1,992	...	...	5,243						
11-20.....	52,806	47,563	9,508	83,622	17,819	14,357	3,737	{	19,924										
21-25.....	57,304	37,380	8,565						23,061										
26-30.....	36,097	13,036	3,483						2,112										
31-35.....	32,015	29,903	8,813						...	...	...	...							
36-40.....	32,169	6,235	1,770	4,619	1,200	1,616	570	{	25,934										
41-45.....	99,724	18,677	5,278						13,556	3,700	5,121	1,578	81,047						
46-50.....	47,168	16,031	4,392						16,031	4,392	...	...	31,137						
51-60.....	29,159	24,601	7,622						21,949	6,544	2,652	1,078	4,558						
61-70.....	10,174	9,750	5,339	9,750	5,339	...	...	{	424										
71-80.....	13,874	13,415	6,121						13,415	6,121	...	...	459						
81-90.....	66,650	4,731	1,873						4,731	1,873	...	...	{	...					
91-100.....		18,338	7,336											39,368	21,687	8,504	3,879	{	...
101-150.....		29,534	18,230	10,898	14,173	1,266	843	{											...
151-200.....		12,164	15,016																1,468
201 and over.....	1,468	7,107																	

See footnotes at end of table 6F.



Table 6D.--Quantity and Value of Gasoline Engines (Except Automotive, Aircraft and Outboard) Shipped and Quantity Produced and Incorporated into Other Products, by Horsepower Rating and Piston Displacement: 1958 and 1954--Continued

Size group	Total number of engines <sup>1</sup>	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of engines produced and incorporated into products of same plant
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)	
PISTON DISPLACEMENT (cubic inches)	1954—Continued							
Total.....	23,702,946	3,064,428	192,541	2,993,575	179,323	70,853	13,218	638,518
Under 6.....	1,441,259	1,097,124	26,454	1,059,787	24,921	37,337	1,533	344,135
6.0-10.9.....	1,560,956	1,490,756	38,781	1,490,756	38,781	...	...	70,200
11-15.....	62,393	53,881	3,435	53,881	3,435	...	...	8,512
16-20.....	144,834	49,265	3,307	49,265	3,307	...	...	17,993
21-30.....		70,823	5,401	70,823	5,401	...	...	
31-40.....		6,753	1,946	6,753	1,946	...	...	
41-50.....		9,491	2,259	9,491	2,259	...	...	
51-75.....	49,707	42,660	7,760	58,537	14,266	4,725	1,238	7,047
76-100.....	33,278	20,602	7,744		7,361	9,292	2,394	12,676
101-125.....	67,312	42,484	9,755	33,192	7,361	9,292	2,394	24,828
126-150.....	89,435	40,575	9,787	60,589	15,374	2,111	639	48,860
151-175.....	35,013	22,125	6,226		...	...	...	12,888
176-200.....	110,252	3,472	1,172	3,472	1,172	...	...	41,133
201-225.....		16,526	7,841	53,476	21,677	12,171	4,463	
226-250.....		49,121	18,299		20,246	4,211	2,346	
251-300.....		45,310	18,749	7,542	33,744	20,246	4,211	
301-350.....	31,881	19,206	15,050	1,002	519	...	...	7,980
351-400.....	14,352	1,002	519		...	...	...	
401-500.....	7,473	5,370	7,847	4,364	7,242	1,006	605	3,030
501-600.....		1,659	1,986	1,659	1,986	...	...	
601-800.....		1,446	3,127	1,446	3,127	...	...	
801-900.....		327	866	327	866	...	...	
901 and over.....		1,011	5,437	1,011	5,437	...	...	

See footnotes at end of table 6F.

Table 6E.--Quantity and Value of Diesel and Semi-Diesel Engines (Except Automotive Shipped and Quantity) Produced and Incorporated into Other Products, by Horsepower Rating and Piston Displacement: 1958 and 1954

Size group	Total number of engines <sup>1</sup>	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of engines produced and incorporated into products of same plant	
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)		
HORSEPOWER RATING	1958								
Total.....	131,736	<sup>3</sup> 76,857	<sup>3</sup> 236,025	<sup>3</sup> 44,291	<sup>3</sup> 165,892	32,566	70,133	54,879	
Under 20.....	19,914	{	2,311	2,245	12,690	12,882	17,904	15,905	{
21-30.....			72	109					
31-40.....			2,485	1,797					
41-50.....			1,071	1,395					
51-70.....	47,907	24,655	23,241	11,845	17,253	5,666	12,438	23,252	
71-100.....	27,117	17,511	29,691						9,606
101-150.....	36,798	{	10,850	27,363	12,318	37,406	6,090	18,396	{
151-200.....			7,558	28,439					
201-300.....			7,499	34,579					
301-400.....			746	5,692					
401-500.....			882	25,479					
501-600.....			246	4,130					
601-700.....	36,798	{	173	7,976	7,438	98,351	2,906	23,394	{
701-800.....			178	6,793					
801-900.....			65	1,657					
901-1,000.....			7	550					
1,001-1,500.....			243	10,439					
1,501 and over.....		305	24,450						

See footnotes at end of table 6F.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6E.-Quantity and Value of Diesel and Semi-Diesel Engines (Except Automotive) Shipped and Quantity Produced and Incorporated into Other Products, by Horsepower Rating and Piston Displacement: 1958 and 1954-Continued

Size group	Total number of engines <sup>1</sup>	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of en- gines produced and incorporated into products of same plant				
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)					
1958—Continued												
PISTON DISPLACEMENT (cubic inches)												
Total.....	131,736	<sup>3</sup> 76,857	<sup>3</sup> 236,025	<sup>3</sup> 44,291	<sup>3</sup> 165,892	32,566	70,133	54,879				
Under 101.....	61,020	2,261	2,151	2,261	2,151	...	...	19,590				
101-150.....		4,221	5,165	21,800	28,452	17,369	15,713					
151-200.....		3,070	2,523									
201-250.....		10,212	10,142									
251-300.....		21,666	26,335									
301-400.....	26,296	7,216	12,069	3,118	4,820	4,098	7,249	19,080				
401-500.....	21,951	7,358	21,877	7,419	26,246	5,711	22,570	8,821				
501-600.....		5,772	26,939									
601-800.....		6,902	24,305									
801-1,000.....		5,135	21,809									
1,001-1,500.....		1,785	18,948	9,602	91,165	5,388	24,601					
1,501-2,000.....	318	13,057										
2,001-3,000.....	376	7,822	7,388									
3,001-5,000.....	211	13,460										
5,001-10,000.....	263	16,365										
10,001-15,000.....	45	7,013		45	7,013	...	...					
15,001-25,000.....	24	1,978		24	1,978	...	...					
25,001 and over.....	22	4,067		22	4,067	...	...					
1954												
HORSEPOWER RATING												
Total.....	104,686	<sup>4</sup> 65,317	<sup>4</sup> 208,370	48,639	172,271	16,678	36,099	39,369				
Under 6.....	5,661	247	172	247	172	...	...	1,267				
6-10.....		147	134	147	134	...	...					
11-20.....		307	355	307	355	...	...					
21-30.....		173	307	173	307	...	...					
31-40.....		3,520	3,220	1,840	1,477	1,680	1,743					
41-50.....	9,861	5,191	5,158	12,823	12,006	8,769	10,158	4,670				
51-70.....	27,682	16,401	17,006					11,281				
71-100.....	17,731	10,979	14,045					8,905	11,417	2,074	2,628	6,752
101-150.....	26,242	14,456	35,258					12,185	30,607	2,271	4,651	11,786
151-200.....	6,719	4,683	17,398	10,791	44,720	1,604	5,778	2,036				
201-300.....	7,883	7,712	33,100					171				
301-500.....	768	715	28,476					715	28,476	...	...	53
501-600.....	2,139	134	5,414	506	42,600	280	11,141	1,353				
601-800.....		213	11,974									
801-900.....		43	3,161									
901-1,000.....		19	1,362									
1,001-1,500.....		89	7,514	715	28,476	...	...					
1,501 and over.....		288	24,316									
PISTON DISPLACEMENT (cubic inches)												
Total.....	104,686	<sup>4</sup> 65,317	<sup>4</sup> 208,370	48,639	172,271	16,678	36,099	39,369				
50 and under.....	17,861	321	804	319	804	...	...	1,342				
51-100.....		331	1,127	333	1,127	...	...					
101-150.....		6,569	6,206	12,264	12,034	3,603	4,680					
151-200.....		1,026	1,038									
201-250.....		8,272	9,470									
251-300.....	22,532	17,544	22,078	12,889	16,587	4,655	5,491	4,988				
301-400.....	21,827	7,046	9,453	12,352	27,391	5,938	9,704	14,781				
401-500.....	11,753	8,877	20,730					2,876				
501-600.....	9,734	2,367	6,912					7,367				
601-800.....	13,241	7,285	26,080					4,229				
801-1,000.....		1,727	6,107	1,869	10,255	...	...	3,351				
1,001-1,500.....		1,869	10,255									
1,501-2,000.....		844	29,739									
2,001-3,000.....	2,518	323	5,494	323	5,494	...	...	435				
3,001-5,000.....		258	7,464									
5,001-10,000.....		398	22,107									
10,001-15,000.....		167	13,209									
15,001-25,000.....		42	2,902	42	2,902	...	...					
25,001 and over.....		51	7,195	51	7,195	...	...					

See footnotes at end of table 6F.



# ENGINES AND TURBINES AND FARM MACHINERY AND EQUIPMENT

35A-25

Table 6F.—Quantity and Value of Gas Engines (Except Automotive) Shipped and Quantity Produced and Incorporated into Other Products, by Horsepower Rating and Piston Displacement: 1958 and 1954

Size group	Total number of engines <sup>1</sup>	Shipments and interplant transfers <sup>5</sup>		Number of engines produced and incorporated into products of same plant
		Number	Value (\$1,000)	
1958				
HORSEPOWER RATING				
Total.....	14,929	5,517	31,548	9,412
Under 51.....	4,663	2,209	2,276	2,454
51-150.....	10,266	2,099	2,881	6,958
151-200.....		534	1,108	
201-500.....		386	6,891	
501 and over.....		289	18,302	
PISTON DISPLACEMENT (cubic inches)				
Total.....	14,929	5,517	31,458	9,412
Under 251.....	4,317	1,811	1,210	2,506
251-500.....	10,612	2,002	2,168	6,906
501-2,000.....		1,083	3,333	
2,001 and over.....		621	24,747	
1954				
HORSEPOWER RATING				
Total.....	10,691	6,190	25,993	4,501
20 and under.....	1,769	1,769	1,084	...
21-50.....	5,334	1,648	2,186	3,686
51-150.....	3,588	2,060	3,282	815
151 and over.....		713	19,441	
PISTON DISPLACEMENT (cubic inches)				
Total.....	10,691	6,190	25,993	4,501
250 and under.....	10,691	1,634	855	4,501
251-500.....		2,225	2,681	
501-1,000.....		1,551	2,904	
1,001-2,000.....		261	1,560	
2,001 and over.....		519	17,993	

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company.

<sup>2</sup>Includes 8,016 gas-gasoline engines.

<sup>3</sup>Includes 80 dual-fuel (semi-Diesel) engines valued at \$12.0 million. In addition a very small number of such engines were produced and incorporated into products of the same company.

<sup>4</sup>Includes 64 dual-fuel engines valued at \$6.4 million.

<sup>5</sup>Shipments to other companies and interplant transfers are combined to avoid disclosing figures for individual companies.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6G.-Internal Combustion Engines (Except Automotive and Aircraft): Number of Engines, by Engine Operating Data and by Type of Engine: 1958

Engine operating data	Number of engines <sup>1</sup> by type		
	Gasoline	Diesel and semi-Diesel	Gas
Revolutions per minute:			
750 and under.....	} 233,960	{ 517	2,159
751-1,500.....		{ 36,092	8,208
1,501-2,999.....		{ 395,144	4,562
3,000-3,999.....			...
4,000 and over.....	343,673	...	...
Method of cooling:			
Air.....	5,415,619	{ 4131,736	...
Liquid.....	340,260		14,929
Number of cycles:			
2.....	954,972	{ 5131,736	1,212
4.....	4,800,907		13,717

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company, including interplant transfers.<sup>2</sup>Over 95 percent of these engines operated at between 751-1,500 r.p.m.<sup>3</sup>Over 95 percent of these engines operated at between 1,501 and 2,999 r.p.m.<sup>4</sup>Over 95 percent of these engines were liquid cooled.<sup>5</sup>Over 80 percent of these engines were 4-cycle engines.

Table 6H.-Internal Combustion Engines (Except Outboard, Automotive, and Aircraft): Number of Engines by Number of Cylinders and by Type of Engines: 1958

Number of cylinders per engine	Number of engines <sup>1</sup>
	1958
Gasoline:	
1.....	5,351,209
2 and 3.....	74,593
4.....	217,502
6.....	101,649
8 and 12.....	10,926
Diesel:	
1, 2, and 3.....	24,486
4.....	48,504
5, 6, and 7.....	55,038
8 and 9.....	791
10 and over.....	2,917
Gas:	
1, 2, and 3.....	5,716
4.....	6,101
5, 6, and 7.....	2,076
8.....	686
10.....	121
12 and over.....	229

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company, including interplant transfers.



Table 61.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<b>Diesel and semi-Diesel engines (3512):</b>		<b>Planting, seeding, and fertilizing machinery (3523):</b>		<b>Plows, listers, harrows, rollers, pulverizers, and stalk cutters (3524):--</b>	1958 <sup>1</sup>
United States, total:		United States, total:		Continued	
1958.....	314,450	1958.....	95,984	Mountain.....	2,032
1957.....	282,061	1957.....	87,264	Pacific.....	12,612
1956.....	298,472	1956.....	80,148	California.....	12,213
1955.....	246,155	1955.....	89,098		
1954.....	208,370	1954.....	93,593		
1953.....	181,729	1953.....	107,443		
1952.....	184,575	1952.....	127,366		
1951.....	166,377	1951.....	134,062		
1950.....	161,625	1950.....	113,053		
1949.....	175,510	1949.....	114,755		
1947.....	156,969	1947.....	73,990		
	1958 <sup>1</sup>		1958 <sup>1</sup> 1954	<b>Harvesting machinery (3525):</b>	Value of shipments
Northeast.....	43,021	Northeast.....	5,408 (2)	United States, total:	
Pennsylvania.....	10,143	Pennsylvania.....	4,677 3,547	1958.....	321,434
North Central.....	263,261	East North Central.....	70,381 63,634	1957.....	254,029
Ohio.....	17,776	Ohio.....	11,411 13,999	1956.....	226,139
Illinois.....	85,889	Michigan.....	1,133 1,530	1955.....	243,561
South and West.....	8,168	West North Central.....	14,963 17,034	1954.....	252,566
		Minnesota.....	4,177 4,254	1953.....	294,024
<b>Parts and accessories for internal combustion engines (35197):</b>	Value of shipments	Iowa.....	7,588 6,660	1952.....	309,384
United States, total:		Nebraska.....	1,438 (2)	1951.....	345,084
1958.....	358,153	South Atlantic.....	1,616 1,586	1947.....	191,570
1957.....	380,724	South Central.....	2,456 4,133		
1956.....	370,324	West.....	1,160 (3)		
1955.....	310,106				
1954.....	289,858				
1953.....	333,284				
1952.....	353,952				
1951.....	296,655				
1947.....	194,217				
	1958 <sup>1</sup>				
Northeast.....	49,191				
Connecticut.....	7,889				
Pennsylvania.....	10,099				
East North Central.....	277,714				
Ohio.....	19,650				
Indiana.....	40,866				
Illinois.....	91,946				
Michigan.....	64,965				
Wisconsin.....	60,287				
West North Central.....	11,318				
South and West.....	19,930				
California.....	17,998				
<b>Wheel tractors and parts and attachments, except garden and contractors' off-highway (35222):</b>	Value of shipments				
United States, total:					
1958.....	687,271				
1957.....	568,735				
1956.....	527,953				
1955.....	641,195				
1954.....	496,476				
	1958 <sup>1</sup>				
East North Central.....	441,549				
Indiana.....	8,482				
Wisconsin.....	112,215				
West North Central.....	211,688				

See footnotes at end of table.

Table 6I.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Lawn mowers (35227)--</u> Continued	1958 <sup>1</sup>	1954	<u>All other farm machinery and equipment (35228)--</u> Continued	1958 <sup>1</sup>	<u>All other farm machinery and equipment (35228)--</u> Continued	1958 <sup>1</sup>
South Central.....	5,897	4,340			South Atlantic.....	17,300
Pacific.....	2,918	1,952			Virginia.....	2,789
California.....	2,918	1,952	East North Central.....	238,332	North Carolina.....	2,730
	Value of shipments				Georgia.....	4,034
<u>All other farm machinery and equipment (35228):</u>	1958 <sup>1</sup>		Ohio.....	28,764	Florida.....	2,046
United States, total.....	450,236		Indiana.....	26,773	South Central.....	16,628
			Illinois.....	96,904	Tennessee.....	2,922
			Michigan.....	28,229	Alabama.....	2,259
			Wisconsin.....	58,983	Mississippi.....	2,029
					Oklahoma.....	1,611
					Texas.....	6,262
New England.....		1,321	West North Central.....	113,465	Mountain.....	4,130
Middle Atlantic.....		32,569			Colorado.....	2,542
New York.....		15,229	Minnesota.....	26,111	Pacific.....	26,491
New Jersey.....		3,271	Iowa.....	49,137	Washington.....	2,989
Pennsylvania.....		14,069	Missouri.....	7,236	Oregon.....	1,386
			Nebraska.....	15,878	California.....	22,116
			Kansas.....	12,766		

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 35192, New York, New Jersey, Indiana, Michigan, Wisconsin, Missouri, Kentucky, and California; 35197, Massachusetts, New York, Minnesota, Iowa, and Missouri; 35222, Illinois, Michigan, Minnesota, Iowa, Kansas, and Kentucky; 35223, Indiana, Illinois, Wisconsin, South Dakota, North Carolina, and Alabama; 35224, Ohio, Indiana, Minnesota, North Dakota, West Virginia, Alabama, Mississippi, and Colorado; 35225, New York, Pennsylvania, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Missouri, North Dakota, Nebraska, Georgia, Tennessee, Arkansas, and Washington; 35227, Massachusetts, Connecticut, Pennsylvania, Michigan, Minnesota, Georgia, Alabama, and Mississippi; 35228, North Dakota, Maryland, and West Virginia.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



# ENGINES AND TURBINES AND FARM MACHINERY AND EQUIPMENT

35A-29

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1958		1954		1958	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3511—STEAM ENGINES AND TURBINES		INDUSTRY 3519—INTERNAL COMBUSTION ENGINES		INDUSTRY 3522—FARM MACHINERY AND EQUIPMENT			
	Materials, parts, containers and supplies, total.....		xxx	328,353	xxx	507,924	xxx	481,992	xxx	1,183,592
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons	23,366	3,986	21,675	5,384	10,961	1,981	555,728	88,205
331212	Sheet and strip.....	do.	31,261	6,120	26,454	5,289	23,300	3,650	507,230	78,757
331213	Plates.....	do.	80,219	11,277	12,210	1,734	7,521	838	92,071	15,003
331215	Structural shapes.....	do.	4,325	734	878	142	1,644	221	60,882	9,348
331217	Wire and wire products.....	do.							18,077	4,087
331219	All other carbon steel mill shapes and forms.....	do.	7,392	1,389	6,242	2,425	3,875	907	105,867	22,626
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.	4,394	1,805	5,089	1,666	5,350	2,054	47,740	10,610
331225	All other alloy steel mill shapes and forms.....	do.	11,689	3,540	584	256	2,805	1,077	17,646	4,471
331231	Stainless steel mill shapes and forms.....	do.	7,583	9,162	1,244	1,243	1,260	1,312	2,309	3,180
	Copper and copper-base alloy:									
335111	Bare wire for electrical conduction only.....	1,000 lbs.	(D)	(D)					40	33
363111	Insulated wire and cable.....	1,000 lbs. copper content..	(D)	(D)	572	517	1,079	984	283	320
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)....	1,000 lbs.	(D)	(D)	4,432	2,698	10,547	5,273	3,979	2,160
	Aluminum and aluminum-base alloy mill shapes and forms:									
335257	Sheet, plate, and foil.....	do.	xxx	xxx					5,383	2,625
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)...	do.	xxx	xxx	1,647	970	xxx	xxx	3,215	1,750
	Primary metals and scrap:									
331251	Pig iron.....	Short tons	xxx	xxx	14,549	951	12,259	724	171,619	11,106
333411	Aluminum and aluminum-base alloy refinery shapes.....	do.	xxx	xxx	9,646	4,377	xxx	xxx	xxx	xxx
	Scrap (excluding home scrap):									
941011	Iron and steel.....	do.	xxx	xxx	14,812	700	20,121	798	217,967	9,384
941031	Aluminum and aluminum-base alloy.....	1,000 lbs.	xxx	xxx	32,068	6,931	xxx	xxx	xxx	xxx
	Castings (rough and semifinished, received from foundry):									
332011	Iron (gray and malleable).....	Short tons	17,439	9,381	182,712	65,431	149,756	48,015	292,566	83,270
332311	Steel.....	do.	37,197	39,430	1,683	1,331	1,886	1,312	21,802	9,163
336121	Copper and copper-base alloy.....	1,000 lbs.	7,397	5,195	2,516	2,085	2,189	1,577	2,003	1,192
336111	Aluminum and aluminum-base alloy.....	do.	xxx	xxx	37,052	30,469	26,990	21,869	26,705	4,274
339111	Iron and steel forgings.....	Short tons	30,093	48,195	35,537	16,127	xxx	xxx	70,490	26,799
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number....	xxx	xxx	xxx	xxx	xxx	xxx	155,878	2,812
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.	(D)	(D)	57,115	7,619	52,000	9,240	30,035	3,474
351921	Diesel and semi-diesel engines.....	do.	xxx	xxx	xxx	xxx	xxx	xxx	16,044	12,497
351911	Gasoline and other carburetor engines.....	do.	xxx	xxx	xxx	xxx	xxx	xxx	2,749,788	100,317
339311	Ball and roller bearings.....		xxx	1,020	xxx	3,892	xxx	3,709	xxx	29,967
301121	Pneumatic tires.....	Number....	xxx	xxx	xxx	xxx	xxx	xxx	1,767,000	44,764
301161	Inner tubes.....	do.	xxx	xxx	xxx	xxx	xxx	xxx	1,286,000	4,780
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	187,119	xxx	342,120	xxx	376,451	xxx	540,084
973000	Materials, etc. nsk.....		xxx	xxx	xxx	3,667	xxx	xxx	xxx	455,534

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>In addition, 320,136 short tons of iron castings were produced and consumed in the same establishment.

<sup>2</sup>In addition, 1,044 thousand pounds of aluminum and aluminum-base alloy castings were produced and consumed in the same establishment.

<sup>3</sup>In addition, 203,737 gasoline engines were produced and incorporated into other products in the same establishment.

<sup>4</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3511	STEAM ENGINES AND TURBINES (entire industry).....	28	45,347	274,589	29,319	57,791	172,091	568,643	361,126	961,769	20,492
35111	Steam, gas, and hydraulic turbine generator set units and parts (primary product class of estab.)..	7	28,966	178,525	19,195	37,313	114,753	397,338	246,444	659,044	13,546
35112	Steam, gas and hydraulic turbines and parts, steam engines and parts (primary product class of estab.)..	21	16,381	96,064	10,124	20,478	57,338	171,305	114,682	302,725	6,946
3519	INTERNAL COMBUSTION ENGINES (entire industry).....	112	50,225	277,186	35,771	69,988	184,161	499,328	544,072	1,055,699	40,699
	Establishments with:										
	90% or more specialization.....	79	31,590	172,089	22,675	45,005	116,152	337,162	402,434	747,722	34,895
	75-89% specialization.....	10	8,337	41,833	5,796	10,689	27,706	78,582	63,897	146,221	3,881
35191	Gasoline engines, except outboard, aircraft and automotive engines (primary product class of estab.)..	14	14,864	80,775	11,721	22,862	60,058	128,493	162,447	286,916	6,060
	Establishments with:										
	90% or more specialization.....	5	4,234	22,140	3,616	7,096	17,346	48,397	51,737	96,296	2,887
	75-89% specialization.....	3	2,881	14,675	2,233	4,696	10,996	23,020	33,546	57,272	741
35192	Diesel and semi-Diesel engines (primary product class of estab.)..	16	14,806	83,215	9,452	18,355	48,528	169,385	188,000	371,479	27,218
35195	Outboard motors (primary product class of estab.).....	8	7,626	43,833	5,895	11,858	31,673	90,520	98,655	189,042	4,958
35196	Other internal combustion engines (including converted engines and tank engines) (primary product class of estab.).....	7	1,168	6,675	779	1,530	4,290	9,555	16,527	27,543	( <sup>1</sup> )
35197	Parts and accessories for internal combustion engines (primary product class of estab.).....	52	11,217	57,550	7,411	14,366	36,996	94,861	73,208	166,185	2,129
	Establishments with:										
	90% or more specialization....	32	2,091	7,869	1,219	2,247	5,093	16,377	10,578	26,804	( <sup>1</sup> )
3522	FARM MACHINERY AND EQUIPMENT (entire industry).....	1,469	108,586	550,998	79,922	153,962	373,240	1,087,836	1,318,416	2,421,873	49,779
	Establishments with:										
	90% or more specialization.....	1,278	78,247	395,703	57,585	110,988	267,630	819,186	1,036,312	1,869,296	34,208
	75-89% specialization.....	68	11,570	59,255	8,562	16,908	40,069	103,165	115,387	221,302	3,465
35222	Wheel tractors and parts and attachments (except garden and contractors' off-highway) (primary product class of estab.).....	39	29,852	163,748	21,910	41,720	115,222	367,743	462,185	839,445	20,598
	Establishments with:										
	90% or more specialization....	22	14,820	85,282	10,832	20,412	57,495	220,416	268,994	492,675	11,296
35223	Planting, seeding, and fertilizing machinery and parts (primary product class of estab.).....	58	8,068	42,313	6,244	11,467	29,862	62,797	66,434	130,340	2,000
	Establishments with:										
	90% or more specialization....	42	658	2,867	527	1,014	1,923	4,618	4,980	9,688	( <sup>1</sup> )
35224	Plows, listers, harrows, rollers, pulverizers and stalk cutters and parts (primary product class of estab.).....	115	10,295	51,527	7,663	14,726	35,004	90,678	97,441	187,351	3,084
	Establishments with:										
	90% or more specialization....	65	2,560	12,448	1,899	3,733	8,310	24,574	23,234	47,456	714
	75-89% specialization.....	19	2,225	11,776	1,563	2,875	7,271	20,121	28,192	47,722	911
35225	Harvesting machinery and parts (primary product class of estab.)..	120	18,911	99,277	14,489	27,374	70,690	187,605	204,297	391,759	6,373
	Establishments with:										
	90% or more specialization....	70	5,278	26,365	4,044	7,414	18,703	51,714	66,235	117,066	2,316
	75-89% specialization.....	16	5,827	31,865	4,627	8,918	24,173	63,061	62,652	123,238	1,973
35226	Haying machinery and parts (primary product class of estab.).....	43	8,226	43,503	5,674	11,257	27,165	96,520	84,968	181,360	3,658
	Establishments with:										
	90% or more specialization....	23	2,160	11,630	1,248	2,789	6,292	32,654	29,065	63,310	557
	75-89% specialization.....	7	2,216	11,721	1,796	3,472	8,457	23,221	22,526	43,859	628
35227	Lawn mowers and parts (primary product class of estab.).....	144	8,489	38,764	6,101	11,761	23,919	74,561	157,328	242,554	2,783
	Establishments with:										
	90% or more specialization....	115	5,831	27,027	4,121	8,032	16,489	55,897	119,684	183,369	2,293
	75-89% specialization.....	10	895	3,979	624	1,190	2,283	5,118	10,656	18,017	( <sup>1</sup> )
35228	All other farm machinery and equipment (primary product class of estab.).....	681	21,665	100,197	15,294	31,051	62,182	196,625	218,651	413,467	9,425
	Establishments with:										
	90% or more specialization....	522	10,819	48,232	8,033	16,278	30,529	105,230	116,737	220,374	5,292
	75-89% specialization.....	38	2,142	10,057	1,417	3,121	5,958	20,056	23,421	43,686	545

<sup>1</sup>Less than \$500 thousand.<sup>r</sup>Revised.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers and Man-hours Employed in These Operations, by Industry. 1958

Metalworking operations	Distribution by number of production workers in the operation										
	Establishments					Employment in the specified operation					
	Total	Number of production workers			Total	Number of production workers					
		1-4	5-19	20 or more		1-4	5-19	20 or more			
INDUSTRY 3511—STEAM ENGINES AND TURBINES											
Ferrous foundry.....	3	...	1	2	(D)	...	(D)	(D)	(D)	(D)	(D)
Nonferrous foundry (except die casting)...	2	1	...	1	(D)	...	(D)	(D)	(D)	(D)	(D)
Forging.....	4	...	3	1	101	...	(D)	(D)	(D)	(D)	(D)
Heat treating and annealing.....	12	3	6	3	149	...	63	80	(D)	(D)	(D)
Automatic screw machine department.....	3	1	1	1	70	(D)	(D)	(D)	(D)	(D)	(D)
Machine shop.....	24	...	3	21	7,142	...	38	7,104	(D)	(D)	(D)
Tool and die shop.....	13	2	2	9	560	(D)	(D)	536	(D)	(D)	(D)
Foundry pattern shop.....	12	6	3	3	142	14	20	108	(D)	(D)	(D)
Plate or structural fabrication.....	13	1	3	9	1,826	(D)	(D)	1,783	(D)	(D)	(D)
INDUSTRY 3522—FARM MACHINERY AND EQUIPMENT											
Ferrous foundry.....	53	3	15	35	6,857	12	170	6,675	(D)	(D)	(D)
Nonferrous foundry (except die casting)...	17	6	9	2	449	14	(D)	(D)	(D)	(D)	(D)
Forging.....	71	27	16	28	1,804	57	146	1,601	(D)	(D)	(D)
Heat treating and annealing.....	114	72	25	17	1,058	137	255	666	(D)	(D)	(D)
Automatic screw machine department.....	60	30	15	15	911	63	146	702	(D)	(D)	(D)
Machine shop.....	418	155	154	109	17,176	373	1,564	15,239	(D)	(D)	(D)
Tool and die shop.....	208	104	63	41	2,962	219	532	2,211	(D)	(D)	(D)
Foundry pattern shop.....	63	38	17	8	505	63	163	279	(D)	(D)	(D)
Plate or structural fabrication.....	184	57	83	44	3,001	145	818	2,038	(D)	(D)	(D)
Stamping, blanking, and forming.....	363	131	136	96	7,282	323	1,332	5,627	(D)	(D)	(D)
Painting, lacquering, and enameling.....	441	326	81	34	3,990	612	638	2,740	(D)	(D)	(D)
INDUSTRY 3519—INTERNAL COMBUSTION ENGINES											
Ferrous foundry.....	13	1	...	12	1,214	(D)	...	2,225	(D)	...	(D)
Nonferrous foundry (except die casting)...	6	1	3	2	139	(D)	30	285	(D)	64	(D)
Nonferrous die casting.....	3	...	1	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Electroplating.....	11	6	3	2	104	17	(D)	212	29	(D)	(D)
Heat treating and annealing.....	30	14	10	6	321	28	90	203	613	52	174
Automatic screw machine department.....	22	4	7	11	727	7	79	641	1,418	14	153
Machine shop.....	68	10	6	52	13,741	22	80	13,639	25,463	35	102
Tool and die shop.....	46	8	18	20	1,531	18	186	1,327	2,868	18	357
Foundry pattern shop.....	14	10	1	3	103	17	(D)	(D)	(D)	(D)	(D)
Plate or structural fabrication.....	13	4	4	5	357	12	36	309	683	16	70
Stamping, blanking, and forming.....	18	8	3	7	461	20	17	424	921	33	22
Painting, lacquering, and enameling.....	52	27	19	6	687	54	166	467	1,311	118	319
Plastics molding.....	1	...	...	1	(D)	...	...	(D)	(D)	...	(D)
Assembly of product.....	54	5	11	38	6,119	12	124	5,983	11,563	27	244
Shipping department (including packing and crating).....	59	23	18	18	1,566	41	191	1,334	2,996	71	366
All other operations.....	34	5	9	20	7,216	13	96	7,107	14,134	27	193

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry		
	3511	3519	3522
Total number of establishments in the industry.....	26	113	1,468
Number of establishments completing the metalworking operations inquiry including establishments that answered "none".....	25	105	1,270
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	over 95	over 95	over 95

D Withheld to avoid disclosing figures for individual companies.





# Construction, Mining, and Materials Handling Machinery and Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries—

## S.I.C. Code and Title (1957 Edition)

- 3531—Construction Machinery and Equipment
- 3532—Mining Machinery and Equipment Except Oil Field Machinery and Equipment
- 3533—Oil Field Machinery and Equipment
- 3534—Elevators and Moving Stairways
- 3535—Conveyors and Conveying Equipment
- 3536—Hoists, Industrial Cranes, and Monorail Systems
- 3537—Industrial Trucks, Tractors, Trailers, and Stackers

## 3531—Construction Machinery and Equipment

This industry comprises establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant; dredging machinery; pavers, and power shovels. Establishments primarily engaged in manufacturing mining equipment are classified in Industry 3532, and well drilling machinery in Industry 3533. For a detailed list of products of Industry 3531, refer to table 6A, product codes 3531110 to 3531998.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Included in Industry 3531, according to the 1957 edition of the Standard Industrial Classification, are establishments primarily engaged in manufacturing contractors' off-highway wheel tractors, tracklaying tractors, and parts and attachments for such tractors. These establishments were formerly classified in Industry 3521, Tractors. Establishments primarily engaged in manufacturing hoists and specialized mining machinery, formerly included in Industry 3531, are now classified respectively, in Industry 3536, Hoists, Cranes, and Monorails; and in Industry 3532, Mining Machinery and Equipment.

Value of shipments and other receipts of the Construction Machinery Industry in 1958 totaled \$2,107 million. This included shipments of construction machinery (primary products), valued at \$1,795 million, shipments of other products (secondary products) valued at \$233 million, and miscellaneous receipts of \$79 million.

This industry's shipments of construction machinery (primary products) in 1958 represented 88 percent of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of internal combustion engines, \$61 million; farm machinery and equipment, \$29 million; and crushing, pulverizing, and screening plants, \$22 million.

Where the primary products of the industry represent more than one product class, the establishments tend to be grouped into "subindustries" represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 25 percent of the total industry shipments are represented by plants specializing in tracklaying tractors (except parts and attachments); 17 percent in power cranes, draglines, and shovels; and 16 percent in scrapers, graders, rollers, and off-highway trucks, trailers, and wagons (except parts).

Industry 3531 shipments of construction machinery (primary products) in 1958 represented 90 percent of these products valued at \$1,989 million shipped by all industries.

The plants included in Industry 3531 are, for the most part, typical of the heavy equipment industries. Their primary operations involve the fabricating of heavy materials (steel bars, plates and structural shapes) and the assembly of the complete machinery and equipment. Because of the wide range of construction equipment included within this industry, significantly different types of plants are involved. Those plants with a product line limited to the production of equipment for mounting on tractors or to the manufacture of draglines, buckets, and repair parts for construction machinery, etc., differ in at least one important respect from those plants producing complete machines, such as power cranes and shovels, motor graders, concrete mixers, pavers, and asphalt plants. In the first instance the operations are confined mostly to fabricating with only limited assembly operations being involved. The plants producing complete machines, however, involve extensive assembly operations in addition to such primary production activities as foundry, forging, and plate and structural fabricating operations.

An indication of the types of metalworking operations performed by all establishments classified in Industry 3531 is shown in table 9. This table presents data on the number of plants performing selected metalworking operations and the approximate size of these operations based on employment.

## 3532—Mining Machinery and Equipment, Except Oil Field Machinery and Equipment

This industry comprises establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in Industry 3531, well drilling machinery in Industry 3533, and coal and ore conveyors in Industry 3535. For a detailed list of products of Industry 3532, refer to table 6A, product codes 3532111 to 3532375.

This is a new industry according to the 1957 edition of the Standard Industrial Classification Manual. Establishments primarily engaged in manufacturing mining machinery were formerly included in Industry 3531, Construction Machinery, but now comprise Industry 3532, Mining Machinery and Equipment. The composition of the industry as now constituted, compared with that under the classi-



fication system followed in the 1954 Census, is shown in table 1A.

Value of shipments and other receipts of the Mining Machinery and Equipment Industry in 1958 totaled \$342 million. This included shipments of mining machinery (primary products), valued at \$215 million, shipments of other products (secondary products) valued at \$84 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$43 million.

This industry's shipments of mining machinery (primary products) in 1958 represented 72 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of construction machinery and equipment, \$30 million; and special industry machinery, n.e.c., \$10 million.

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into "subindustries" represented by the different product class. The extent of this specialization is indicated in table 8. Approximately 23 percent of the total industry shipments are represented by plants specializing in underground mining, machinery and equipment, and 24 percent in stationary crushing, pulverizing, and screening plants.

Industry 3532 shipments of mining machinery and equipment (primary products) in 1958 represented 77 percent (coverage ratio) of these products valued at \$278 million shipped by all industries. Industry 3531, Construction Machinery, shipped \$29 million of mining machinery and equipment.

The coverage ratio for individual product classes varies significantly from that for the industry for the following product class of Industry 3532: Crush, pulverizing, and screening plants (stationary), 60 percent.

The plants classified in Industry 3532 are also typical of the heavy equipment industries. In general, the statement describing the operations of plants in Industry 3531 is also applicable to establishments included in Industry 3532.

### 3533—Oil Field Machinery and Equipment

This industry comprises establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields, or for drilling water wells. For a detailed list of products of Industry 3533, refer to table 6A, product codes 3533111 to 3533431.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3533 from code number 3532 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Oil Field Machines and Equipment industry in 1958 totaled \$585 million. This included shipments of oil field machinery and equipment (primary products), valued at \$468 million, shipments of other products (secondary products), valued at \$41 million, and miscellaneous receipts of \$76 million.

This industry's shipments of oil field machinery and equipment (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio

in 1954 was 89 percent. Secondary products shipped by this industry in 1958 consisted mainly of metal valves for piping systems, \$7 million; and pumps and compressors, \$8 million.

Where the primary products of the industry represent more than one product class, the establishments tend to be grouped into "subindustries" represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 42 percent of the total industry shipments are represented by plants specializing in rotary oil and gas field drilling machinery and equipment, and 38 percent in oil and gas field production machinery and equipment (except pumps).

Industry 3533 shipments of oil field machinery and equipment (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$496 million shipped by all industries. In 1954, the coverage ratio was 93 percent.

It should be noted that Industry 3533 includes only manufacturing plants engaged in the production of oil field machinery and equipment. Establishments primarily engaged in exploration, drilling, and well operation and maintenance are covered in the 1958 Census of Mineral Industries. In those instances where manufacturing plants were operated by companies primarily engaged in such nonmanufacturing activities as servicing and supplying the petroleum industry, separate establishment reports were obtained covering their manufacturing activities and such activities are included in Industry 3533.

As shown in table 2, the plants classified in this industry are concentrated in or near the petroleum producing areas. Of the 389 plants classified in this industry, 307 plants accounting for 85 percent of the total employment of the industry are located in Texas, California, and Oklahoma.

### 3534—Elevators and Moving Stairways

This industry comprises establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumb waiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in Industry 3535, and farm elevators in Industry 3522. For a detailed list of products of Industry 3534, refer to table 6A, product codes 3534011 to 3534098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3534 from code number 3562 in the previous classification system but were not changed as to content.

Some establishments classified in Industry 3534 installed elevators and escalators which they produced in 1958. When the product was installed or erected by the regular labor force operating out of the manufacturing plant, the employment and payroll as well as the receipts for installation services are included in the statistics. However, if this equipment was installed or erected by a labor force separate from the regular force attached to the manufacturing plant, the installation costs and the income from installation were excluded from the report. The data in such instances include the engineering and supervising personnel on the regular plant payroll who were engaged in installing or testing the products. Where the installation was performed by a separate company, even though the services of that separate company may have been con-



tracted for by the manufacturing plant, the installation costs and the receipts for installation were excluded from the report of the manufacturing plant.

Value of shipments and other receipts of the Elevators and Moving Stairways Industry in 1958 totaled \$193 million. This included shipments of elevators and moving stairways (primary products), valued at \$132 million, shipments of other products (secondary products) valued at \$5 million, and miscellaneous receipts (mainly installation work by manufacturing plant employees) of \$56 million.

This industry's shipments of elevators and moving stairways (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent.

Industry 3534 shipments of elevators and moving stairways (primary products) in 1958 represented 80 percent (coverage ratio) of these products valued at \$165 million shipped by all industries. In 1954, the coverage ratio was 89 percent.

### 3535--Conveyors and Conveying Equipment

This industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing passenger or freight elevators, dumb waiters, and moving stairways are classified in Industry 3534; and overhead traveling cranes and monorail systems in Industry 3536. For a detailed list of products of Industry 3535, refer to table 6A, product codes 3535111 to 3535211.

Some establishments classified in Industry 3535 installed conveyors and conveying equipment they produced in 1958. The procedure described above for Industry 3534 concerning the reporting of installation employees and receipts was also followed for establishments producing conveyors and conveying equipment.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Establishments primarily engaged in manufacturing overhead traveling cranes and monorail systems, formerly included in this industry, are now classified in Industry 3536, Hoists, Cranes, and Monorails. Establishments primarily engaged in manufacturing farm elevators, formerly included in this industry, are now classified in Industry 3522, Farm Machinery and Equipment.

Value of shipments and other receipts of the Conveyors industry in 1958 totaled \$386 million. This included shipments of conveyors and conveying equipment (primary products), valued at \$261 million, shipments of other products (secondary products) valued at \$60 million, and miscellaneous receipts, including substantial receipts for installation work by manufacturing plant employees, of \$65 million.

This industry's shipments of conveyor and conveying equipment (primary products) in 1958 represented 81 percent (specialization ratio) of its total product shipments

(primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of mining machinery and equipment, \$5 million; hoists, cranes, and monorails, \$5 million; special-industry machinery, n.e.c., \$5 million; and power transmission equipment, \$3 million.

Industry 3535 shipments of conveyors and conveying equipment (primary products) in 1958 represented 78 percent (coverage ratio) of these products valued at \$334 million shipped by all industries. Industry 3531, Construction Machinery, accounted for \$9 million of shipments of conveyors and conveying equipment.

### 3536--Hoists, Industrial Cranes, and Monorail Systems

This industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments. For a detailed list of products of Industry 3536, refer to table 6A, product codes 3536112 to 3536251.

Some establishments classified in Industry 3536 installed conveyors and conveying equipment they produced in 1958. The procedure described above for Industry 3534 was also followed for establishments producing conveyors and conveying equipment.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This industry is now comprised of establishments primarily engaged in manufacturing hoists, formerly classified in Industry 3531, Construction Machinery, and overhead traveling cranes and monorail systems, formerly classified in Industry 3563, Conveyors.

Value of shipments and other receipts of the Hoists, Cranes, and Monorails Industry in 1958 totaled \$185 million. This included shipments of hoists, cranes, and monorail systems (primary products), valued at \$128 million, shipments of other products (secondary products), valued at \$35 million, and miscellaneous receipts (mainly installation work by manufacturing plant employees) of \$21 million.

This industry's shipments of hoists, cranes, and monorail systems (primary products) in 1958 represented 79 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of conveyors, \$3 million; and industrial truck and tractors, \$4 million.

Where the primary products of the industry represent more than one product class, the establishments tend to be grouped into "subindustries" represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 76 percent of the total industry shipments are represented by plants specializing in overhead traveling cranes, and monorail systems; and 24 percent in hoists.

Industry 3536 shipments of hoists, cranes, and monorail systems (primary products) in 1958 represented 78 percent (coverage ratio) of these products valued at \$166 million shipped by all industries. Industry 3531, Construction Machinery, accounted for \$7 million of shipments of hoists, cranes, and monorail systems.



3537—Industrial Trucks, Tractors, Trailers, and Stackers

This industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor vehicle type trailers are classified in Group 371; farm type wheel tractors in Industry 3522; wheel tractor shovel loaders, track laying tractors in Industry 3531; and wood pallets and skids in Industry 2499. For a detailed list of products of Industry 3537, refer to table 6A, product codes 3537011 to 3537081.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3537 from code number 3565 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Industrial Trucks and Tractors industry in 1958 totaled \$269 million. This included shipments of industrial trucks and tractors (primary products), valued at \$231 million, shipments of other products (secondary products), valued at \$18 million, and miscellaneous receipts of \$20 million.

This industry's shipments of industrial trucks and tractors (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 88 percent.

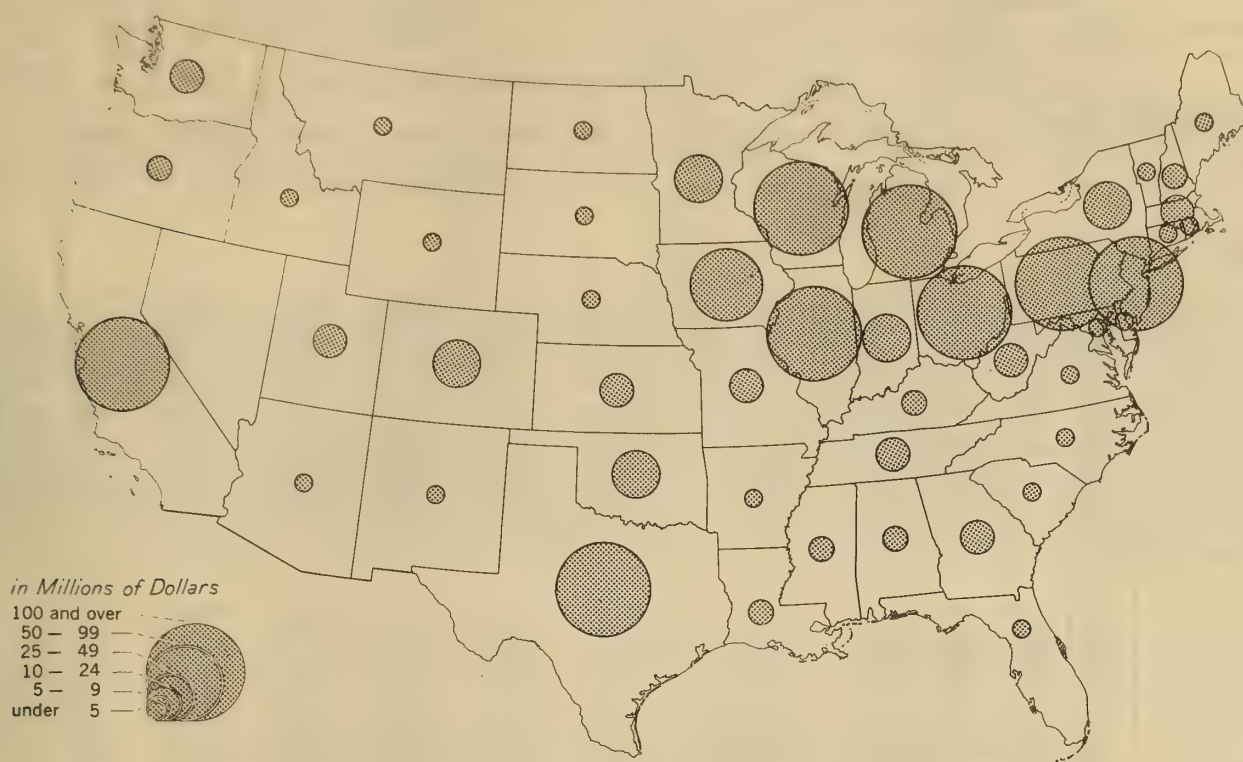
Industry 3537 shipments of industrial trucks and tractors (primary products) in 1958 represented 84 percent (coverage ratio) of these products valued at \$277 million shipped by all industries. In 1954, the coverage ratio was 83 percent. Other industries shipping industrial trucks and tractors (primary products) consisted mainly of Industry 3531, Construction Machinery, \$6 million and Industry 3536, Hoists, Cranes, and Monorails, \$4 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT: SIC 353

Value Added by Manufacture by State: 1958



Includes Industries 3531, 3532, 3533, 3534, 3535, 3536 and 3537. See Table 2.

Bureau of the Census M-58-D353

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3531	Construction machinery: 1958 <sup>8</sup> .....	532	579	295	95,304	496,751	66,510	124,622	310,252	1,022,801	1,033,605	2,107,352	44,810	88	90
3532	Mining machinery and equipment: 1958 <sup>8</sup> .....	167	173	90	17,808	96,966	11,661	22,578	56,423	165,831	167,142	342,035	6,507	72	77
3533 (Old SIC 3532)	Oil field machines and equipment:														
	1958.....	351	389	168	31,878	174,692	20,724	41,215	101,916	336,788	241,854	585,268	18,341	92	94
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	42,019	225,817	29,912	60,718	140,129	433,828	364,033	759,708	(S)	90	95
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	42,854	224,544	31,269	65,600	143,237	464,941	379,115	801,114	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	39,145	196,149	28,438	60,518	125,503	420,052	326,809	700,678	(S)	(NA)	(NA)
	1954.....	319	345	158	33,687	161,802	24,143	49,577	102,320	327,509	217,378	542,500	18,188	89	93
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	34,721	161,872	24,962	52,989	105,414	306,079	202,690	508,769	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	35,847	162,191	26,162	57,247	108,200	314,190	220,857	535,047	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	32,525	138,408	23,449	52,905	91,913	286,665	190,934	477,599	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	26,677	101,737	19,510	41,201	67,023	204,827	135,446	340,273	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	25,580	93,559	19,364	38,745	61,046	168,934	121,121	290,055	(NA)	(NA)	(NA)
	1947.....	204	230	133	29,177	91,532	22,709	47,510	65,083	171,265	117,588	288,853	11,295	88	91
	1939.....	(NA)	239	(NA)	(NA)	(NA)	12,642	(NA)	18,940	58,101	31,451	89,552	(NA)	(NA)	(NA)
3534 (Old SIC 3562)	Elevators and moving stairways:														
	1958.....	135	144	76	9,626	55,657	5,868	11,764	31,156	126,270	71,106	192,806	2,321	97	80
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,020	65,479	7,368	14,991	37,182	143,018	79,797	229,871	8,442	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,176	61,862	7,262	15,500	36,231	131,907	75,330	185,002	4,644	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,537	46,389	6,393	13,067	29,376	102,895	53,051	157,398	1,639	(NA)	(NA)
	1954.....	127	131	66	10,257	49,518	7,017	14,164	31,766	99,763	64,603	167,494	1,429	87	89
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,198	47,828	6,664	14,018	30,683	82,940	60,965	143,905	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,985	53,179	8,015	16,762	33,976	79,876	71,546	151,422	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,141	47,252	7,671	16,298	30,559	70,390	62,409	132,799	(NA)	(NA)	(NA)
	1947.....	108	111	62	10,227	33,998	7,317	15,331	22,890	68,614	33,201	101,815	1,855	92	91
	1939.....	(NA)	101	(NA)	(NA)	(NA)	3,591	(NA)	5,111	16,945	9,871	26,816	(NA)	(NA)	(NA)
3535	Conveyors: 1958 <sup>8</sup> .....	401	420	150	20,789	119,431	12,698	25,584	62,578	192,892	186,979	385,714	7,197	81	78
3536	Hoists, cranes and monorails: 1958 <sup>8</sup> .....	78	81	54	9,520	53,566	6,555	12,988	32,840	92,759	85,484	184,722	5,056	79	78
3537 (Old SIC 3565)	Industrial trucks and tractors:														
	1958.....	254	262	96	14,786	76,200	9,545	18,121	42,982	117,500	140,421	269,328	3,344	93	84
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,979	96,817	12,088	23,826	58,098	156,796	172,395	328,319	(S)	89	87
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	18,593	97,422	13,026	27,009	60,629	188,794	177,425	344,455	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,039	85,527	12,251	25,205	55,162	147,320	161,310	302,423	(S)	(NA)	(NA)
	1954.....	234	245	96	15,797	71,824	11,061	22,123	44,813	124,455	132,206	260,063	7,088	88	83
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,679	88,844	13,909	29,119	58,738	182,541	144,166	326,707	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,781	73,781	11,453	24,292	48,067	159,478	129,941	289,419	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,676	67,995	11,781	25,878	47,512	128,407	143,856	272,263	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,372	45,807	8,990	19,247	29,716	87,222	79,229	166,451	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,444	43,481	8,118	16,964	24,736	75,654	64,507	140,161	(NA)	(NA)	(NA)
	1947.....	191	196	78	13,926	41,908	10,603	22,460	29,530	81,517	80,634	162,151	(NA)	84	84
	1939.....	(NA)	70	(NA)	(NA)	(NA)	3,652	(NA)	4,576	13,181	17,174	30,355	(NA)	(NA)	(NA)

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3533	318,737
3534	102,106
3537	123,044

Footnotes continued on next page.



Footnotes for Table 1--35D

<sup>4</sup>For 1948 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954
3533	203,339	194,645
3534	67,509	58,918
3537	129,881	122,065

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)	
	1958	1954
3533	540,871	513,383
3534	189,406	161,024
3537	254,980	245,110

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the 1958 figures for this industry are not comparable as in earlier years. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Number of establishments		Number of employees	Adjusted value added by manufacture (\$1,000)	Number of establishments		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3531—Construction machinery, total.....	579	295	95,304	1,022,801	xxx	r xxx	xxx	xxx
Old Industry 3531—Construction machinery.....	541	267	65,689	607,697	r 754	r 381	r 83,400	r 775,015
Old Industry 3521—Tractors.....	35	25	28,464	408,197	r 129	r 68	r 60,325	r 779,524
Other Industries <sup>2</sup> .....	3	3	1,151	6,907	xxx	xxx	xxx	xxx
New Industry 3532—Mining machines and equipment, total.....	173	90	17,808	165,831	xxx	r xxx	xxx	xxx
Old Industry 3531—Construction machinery.....	169	88	(D)	(D)	r 754	r 381	r 83,400	r 775,015
Other Industries <sup>2</sup> .....	4	2	(D)	(D)	xxx	xxx	xxx	xxx
New Industry 3535—Conveyors, total.....	420	150	20,789	192,892	xxx	r xxx	xxx	xxx
Old Industry 3563—Conveyors.....	409	150	20,743	192,402	r 173	r 198	r 31,099	r 289,938
Other Industries <sup>2</sup> .....	11	...	46	490	xxx	xxx	xxx	xxx
New Industry 3536—Hoists, cranes and monorails, total.....	81	54	9,520	92,759	xxx	xxx	xxx	xxx
Old Industry 3531—Construction machinery.....	40	24	(D)	(D)	r (3)	r (3)	r (3)	r (3)
Old Industry 3563—Conveyors.....	39	29	6,647	64,399	r 173	r 198	r 31,099	r 289,938
Other Industries <sup>2</sup> .....	2	1	(D)	(D)	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing figures of individual companies. <sup>1</sup>Revised.

<sup>2</sup>These totals may represent slight revisions from the preliminary figures previously published for these industries.

<sup>3</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product classification to conform to the new SIC and because of classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>4</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3531	Construction machinery, total...	579	295	95,304	496,751	66,510	124,622	310,252	1,022,801	2,107,352	44,810	(3)	(3)	(3)
	New England.....	28	8	963	5,079	731	1,560	3,500	7,588	16,643	(2)	(3)	(3)	(3)
	Massachusetts...	14	6	313	1,760	232	522	1,149	3,140	6,786	(2)	(3)	(3)	(3)
	Middle Atlantic...	73	35	5,790	29,729	3,798	7,375	18,332	74,855	121,597	1,609	(3)	(3)	(3)
	New York.....	25	10	663	3,231	489	1,002	2,156	8,068	15,376	(2)	(3)	(3)	(3)
	New Jersey.....	20	9	1,291	6,518	802	1,651	3,620	11,726	21,542	(2)	(3)	(3)	(3)
	Pennsylvania....	28	16	3,836	19,980	2,507	4,722	12,556	55,061	84,679	1,182	(3)	(3)	(3)
	East North Central	208	134	70,285	366,739	48,931	89,213	226,807	771,670	1,597,993	34,415	(3)	(3)	(3)
	Ohio.....	64	41	12,082	63,799	7,981	14,998	37,236	99,894	258,511	5,065	(3)	(3)	(3)
	Indiana.....	16	13	4,050	20,257	2,911	5,568	13,058	35,061	78,212	6,162	(3)	(3)	(3)
	Illinois.....	61	37	36,749	184,953	26,623	46,353	119,697	477,030	910,478	18,715	(3)	(3)	(3)
	Michigan.....	28	15	4,624	25,597	3,334	6,500	16,667	49,821	119,871	1,290	(3)	(3)	(3)
	Wisconsin.....	39	28	12,780	72,133	8,082	15,794	40,149	109,864	230,921	3,183	(3)	(3)	(3)
	West North Central	75	39	8,687	45,429	6,013	12,491	28,749	74,988	172,068	3,744	(3)	(3)	(3)
	Minnesota.....	22	11	3,134	16,819	2,149	4,464	10,940	24,831	50,214	647	(3)	(3)	(3)
	Iowa.....	23	13	4,532	23,872	3,194	6,664	15,020	43,919	103,596	1,947	(3)	(3)	(3)
	Missouri.....	11	7	448	2,110	270	535	1,151	2,781	8,211	(D)	(3)	(3)	(3)
	Nebraska.....	7	3	178	785	123	247	442	871	3,473	(D)	(3)	(3)	(3)
	Kansas.....	12	5	395	1,843	277	581	1,196	2,586	6,774	(2)	(3)	(3)	(3)
	South Atlantic....	24	7	1,175	5,640	893	1,681	3,656	15,918	30,964	(2)	(3)	(3)	(3)
	East South Central	16	7	928	4,354	745	1,494	3,314	7,353	15,158	(2)	(3)	(3)	(3)
	Tennessee.....	7	3	427	2,107	353	709	1,690	2,836	7,241	(2)	(3)	(3)	(3)
	West South Central	41	29	2,761	13,538	1,996	4,279	8,804	24,689	56,202	1,192	(3)	(3)	(3)
	Texas.....	25	16	1,520	7,390	1,088	2,253	4,552	13,201	28,483	789	(3)	(3)	(3)
	Mountain.....	17	6	1,144	5,430	821	1,520	3,633	15,806	26,489	(D)	(3)	(3)	(3)
	Pacific.....	97	30	3,571	20,813	2,582	5,009	13,457	29,934	70,238	(D)	(3)	(3)	(3)
	Washington.....	12	6	727	4,525	580	1,091	3,270	6,657	12,582	(D)	(3)	(3)	(3)
	Oregon.....	10	2	237	1,374	173	350	972	2,820	6,093	(2)	(3)	(3)	(3)
	California.....	75	22	2,607	14,914	1,829	3,568	9,215	20,457	51,563	936	(3)	(3)	(3)
3532	Mining machinery and equipment, total...	173	90	17,808	96,966	11,661	22,578	56,423	165,831	342,035	6,507	(3)	(3)	(3)
	Northeast.....	36	23	5,279	27,423	3,706	7,300	17,539	47,032	110,512	1,828	(3)	(3)	(3)
	Pennsylvania....	25	16	3,286	17,512	2,265	4,449	11,049	30,747	72,982	918	(3)	(3)	(3)
	East North Central	44	25	7,021	39,537	4,119	7,617	20,353	59,704	120,692	2,235	(3)	(3)	(3)
	Ohio.....	16	10	4,043	21,586	2,356	4,178	11,165	31,372	60,119	1,465	(3)	(3)	(3)
	Illinois.....	17	9	1,464	7,883	844	1,561	4,076	12,161	23,874	(2)	(3)	(3)	(3)
	West North Central	17	11	1,323	7,028	1,015	2,077	4,928	11,903	26,159	(2)	(3)	(3)	(3)
	Minnesota.....	4	3	150	964	109	252	671	1,307	2,950	(D)	(3)	(3)	(3)
	Missouri.....	8	5	287	1,586	205	418	961	3,549	6,256	(2)	(3)	(3)	(3)
	South Atlantic....	29	12	1,105	6,338	731	1,440	3,547	9,810	24,317	(2)	(3)	(3)	(3)
	West Virginia...	18	9	936	5,458	617	1,216	3,081	7,324	19,479	(2)	(3)	(3)	(3)
	East South Central	8	2	246	1,069	176	300	585	1,650	3,188	(D)	(3)	(3)	(3)
	West South Central	8	4	307	1,581	233	673	906	3,285	6,518	(D)	(3)	(3)	(3)
	Mountain.....	17	6	1,144	5,430	821	1,520	3,633	15,806	26,489	(D)	(3)	(3)	(3)
	Pacific.....	19	6	414	2,496	313	613	1,617	7,798	12,517	(2)	(3)	(3)	(3)
	California.....	13	6	358	2,207	272	539	1,411	7,240	11,401	(2)	(3)	(3)	(3)
3533	Oil field machines and equipment, total...	389	168	31,878	174,692	20,724	41,215	101,916	336,788	585,268	18,341	33,687	318,737	29,177
	Northeast.....	15	8	1,496	7,539	1,114	1,918	5,075	12,458	20,652	1,475	1,989	10,205	2,247
	Pennsylvania....	10	7	1,431	7,206	1,063	1,838	4,824	11,801	19,494	1,472	1,950	9,765	(D)
	East North Central	19	11	877	4,191	608	1,089	2,509	7,609	15,958	(2)	2,255	15,534	2,294
	Ohio.....	10	5	524	2,440	376	665	1,513	4,905	8,920	(2)	1,801	12,157	2,224
	West North Central	13	4	812	3,865	334	563	1,522	7,237	19,826	612	1,053	9,972	1,330
	South.....	254	111	23,473	128,772	15,599	31,772	77,420	257,787	442,724	14,311	22,561	230,900	17,968
	Louisiana.....	11	5	515	2,618	380	756	1,675	5,071	11,345	(2)	(4)	(4)	(4)
	Oklahoma.....	68	23	4,265	23,274	2,991	5,773	14,611	35,955	79,729	1,090	5,656	39,150	3,554
	Texas.....	164	80	18,257	100,896	11,898	24,534	59,665	214,409	347,093	12,771	15,960	185,232	13,446
	Mountain.....	12	3	569	3,334	310	595	1,539	5,751	12,765	(2)	469	4,234	(D)
	Pacific.....	76	31	4,651	26,991	2,759	5,278	13,851	45,946	73,343	1,655	5,358	47,891	(D)
3534	Elevators and moving stairways, total...	144	76	9,626	55,657	5,868	11,764	31,156	126,270	192,806	2,321	10,257	102,106	10,227
	New England.....	10	5	293	1,544	195	377	1,045	2,225	4,066	(2)	374	2,794	332
	Massachusetts...	6	3	232	1,030	153	299	663	1,478	2,648	(D)	271	1,612	(D)
	Middle Atlantic...	29	20	4,913	29,597	3,028	6,254	17,339	85,000	116,947	1,098	6,551	71,909	6,037
	East North Central	47	22	2,250	12,595	1,388	2,717	7,170	20,199	36,694	781	(4)	(4)	(4)
	Ohio.....	15	6	1,260	7,031	713	1,460	3,759	10,519	20,243	568	855	6,448	575
	Indiana.....	5	3	128	703	95	193	498	2,440	3,600	(2)	(4)	(4)	(4)
	Wisconsin.....	7	4	257	1,639	204	390	1,134	2,537	4,231	(2)	182	2,261	152
	West North Central	17	6	341	1,509	227	324	800	2,506	4,883	(2)	(4)	(4)	(4)
	Minnesota.....	6	2	111	637	67	76	188	604	1,616	(2)	126	1,192	102
	Iowa.....	4	2	113	468	78	141	335	1,259	2,114	(2)	142	890	(D)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3535	Elevators, etc.—Con.													
	South.....	21	13	1,050	5,188	691	1,430	2,948	7,753	15,679	(2)	896	6,803	(D)
	North Carolina.....	3	2	131	617	84	223	372	916	2,120	(2)	(4)	(4)	(4)
	Kentucky.....	3	3	175	983	110	218	550	1,153	2,500	(2)	152	945	217
	West.....	20	10	779	5,224	339	662	1,854	8,587	14,537	(2)	(4)	(4)	(4)
	California.....	16	9	622	4,370	252	491	1,382	7,108	12,220	(2)	344	2,989	341
	Conveyors, total.....	420	150	20,789	119,431	12,698	25,584	62,578	192,892	385,714	7,197	(3)	(3)	(3)
	New England.....	20	5	284	1,542	208	402	1,054	2,018	4,590	(2)	(3)	(3)	(3)
	Massachusetts.....	13	4	222	1,231	170	329	859	1,510	3,662	(2)	(3)	(3)	(3)
	Middle Atlantic.....	96	39	5,694	31,900	3,133	6,405	15,455	56,689	118,033	1,157	(3)	(3)	(3)
	New York.....	34	11	1,254	7,023	841	1,725	4,187	13,292	23,768	(2)	(3)	(3)	(3)
	New Jersey.....	29	14	1,686	10,222	792	1,661	4,136	13,922	36,034	(2)	(3)	(3)	(3)
	Pennsylvania.....	33	14	2,754	14,655	1,500	3,019	7,132	29,475	58,231	563	(3)	(3)	(3)
	East North Central.	150	53	8,822	54,035	5,620	11,353	29,519	84,133	161,935	2,975	(3)	(3)	(3)
	Ohio.....	28	10	1,527	8,290	909	1,788	3,969	12,670	24,414	1,086	(3)	(3)	(3)
	Illinois.....	43	16	3,103	18,042	1,959	3,994	10,029	33,104	62,733	1,054	(3)	(3)	(3)
	Michigan.....	54	20	3,394	23,375	2,129	4,295	12,460	30,572	61,078	553	(3)	(3)	(3)
	Wisconsin.....	16	5	704	3,918	551	1,146	2,758	7,072	12,165	(2)	(3)	(3)	(3)
	West North Central.	44	14	1,510	7,990	892	1,802	3,929	14,765	26,838	560	(3)	(3)	(3)
	Minnesota.....	10	3	487	2,476	285	538	1,254	4,359	8,220	(2)	(3)	(3)	(3)
	Missouri.....	13	6	478	2,785	288	584	1,314	4,373	8,294	(2)	(3)	(3)	(3)
	Kansas.....	7	2	279	1,600	113	244	551	2,452	4,950	(2)	(3)	(3)	(3)
	South Atlantic.....	21	9	724	3,905	455	872	1,945	6,594	14,918	539	(3)	(3)	(3)
	Virginia.....	4	2	111	472	82	157	312	781	1,735	(D)	(3)	(3)	(3)
	East South Central.	17	10	1,989	9,773	1,292	2,597	5,358	11,908	23,938	1,055	(3)	(3)	(3)
	Kentucky.....	6	4	672	3,204	483	1,011	1,930	5,631	9,903	(2)	(3)	(3)	(3)
	Tennessee.....	8	3	184	853	125	215	510	1,593	2,930	(2)	(3)	(3)	(3)
	West South Central.	18	7	521	2,533	346	626	1,270	4,101	7,829	(2)	(3)	(3)	(3)
	Texas.....	10	6	400	1,959	255	460	872	2,978	5,984	(2)	(3)	(3)	(3)
	Mountain.....	10	3	124	667	79	146	398	995	2,585	(2)	(3)	(3)	(3)
	Pacific.....	44	10	1,121	7,086	673	1,381	3,650	11,689	25,048	731	(3)	(3)	(3)
	California.....	36	9	1,022	6,574	622	1,280	3,360	10,787	23,368	683	(3)	(3)	(3)
3536	Hoists, cranes, and monorails, total....	81	54	9,520	53,566	6,555	12,988	32,840	92,759	184,722	5,056	(3)	(3)	(3)
	Northeast.....	18	10	1,346	6,939	882	1,653	4,187	13,032	21,827	(2)	(3)	(3)	(3)
	East North Central.	35	25	6,093	35,229	4,235	8,509	21,715	58,309	119,787	4,082	(3)	(3)	(3)
	Ohio.....	14	11	2,705	15,830	1,898	3,746	9,652	29,009	57,239	2,910	(3)	(3)	(3)
	Illinois.....	8	6	1,490	9,314	999	2,072	5,247	12,042	27,813	(2)	(3)	(3)	(3)
	Michigan.....	7	4	1,205	6,301	845	1,702	4,426	12,369	23,123	(D)	(3)	(3)	(3)
	West North Central.	7	4	545	2,879	344	660	1,534	5,822	11,008	(2)	(3)	(3)	(3)
	South.....	6	3	538	2,358	368	700	1,328	4,467	9,489	(2)	(3)	(3)	(3)
	West.....	15	12	998	6,161	726	1,466	4,076	11,129	22,611	(2)	(3)	(3)	(3)
	Washington.....	6	4	295	1,837	212	418	1,142	3,362	6,302	(2)	(3)	(3)	(3)
3537	Industrial trucks and tractors, total.	262	96	14,786	76,200	9,545	18,121	42,982	117,500	269,328	3,344	15,797	123,044	13,926
	New England.....	19	9	936	4,397	725	1,371	3,194	8,174	13,837	(2)	(4)	(4)	(4)
	Massachusetts.....	9	5	807	3,947	615	1,196	2,846	7,464	12,709	(2)	628	5,695	704
	Connecticut.....	10	4	129	450	110	175	348	710	1,128	(2)	(4)	(4)	(4)
	Middle Atlantic....	41	14	3,621	19,184	2,117	4,125	10,433	33,020	57,616	507	(4)	(4)	(4)
	New York.....	17	6	481	2,492	294	552	1,260	5,127	9,853	(D)	451	4,547	252
	Pennsylvania.....	19	6	3,050	16,181	1,759	3,428	8,861	27,013	46,197	(2)	3,110	23,343	2,393
	East North Central.	90	33	6,254	32,962	4,057	7,437	18,297	48,201	122,155	1,393	7,850	61,972	7,342
	Ohio.....	23	8	2,159	12,100	1,245	2,516	6,060	17,861	37,833	(2)	2,601	19,787	2,688
	Indiana.....	8	3	216	1,103	150	272	667	1,202	2,704	(2)	(4)	(4)	(4)
	Illinois.....	21	10	1,774	8,459	1,101	2,149	4,984	11,286	32,597	703	1,879	16,173	2,313
	Michigan.....	27	9	1,927	10,505	1,417	2,223	6,051	16,488	46,134	(2)	2,744	21,524	1,942
	Wisconsin.....	11	3	178	795	144	277	535	1,364	2,887	(2)	(4)	(4)	(4)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Industrial trucks, etc.—Continued													
	West North Central	21	8	600	2,726	396	752	1,462	4,230	8,332	( <sup>2</sup> )	917	6,081	463
	Minnesota.....	8	5	351	1,603	239	442	889	2,451	4,943	( <sup>2</sup> )	597	3,959	245
	South Atlantic....	18	6	587	2,116	416	830	1,306	2,960	9,031	( <sup>2</sup> )	383	1,934	529
	Georgia.....	8	3	451	1,522	311	614	928	2,099	6,685	( <sup>2</sup> )	227	1,159	200
	East South Central	10	5	416	1,639	324	632	1,006	2,677	6,223	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West South Central	10	4	195	925	132	299	533	1,644	3,225	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	53	17	2,177	12,251	1,378	2,675	6,751	16,594	48,909	720	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Oregon.....	9	4	940	5,461	623	1,263	3,366	5,592	18,107	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	California.....	38	11	1,028	5,704	609	1,111	2,662	9,518	25,525	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding. <sup>R</sup>Revised.<sup>D</sup> Withheld to avoid disclosing figures for individual companies.<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3531, Construction machinery: New England—Maine, 3 (250-499); Vermont, 1 (100-249); Rhode Island, 1 (1-19); Connecticut, 9 (20-99); South Atlantic—Delaware, 1 (1-19); Maryland, 3 (100-249); Virginia, 2 (20-99); West Virginia, 5 (20-99); North Carolina, 4 (20-99); Georgia, 3 (500-999); Florida, 6 (20-99); East South Central—Kentucky, 2 (20-99); Alabama, 5 (250-499); Mississippi, 2 (100-249); West South Central—Louisiana, 2 (250-499); Oklahoma, 14 (500-999); Mountain—Montana, 1 (1-19); Idaho, 3 (20-99); Wyoming, 1 (1-19); Colorado, 8 (1,061); New Mexico, 1 (1-19); Arizona, 1 (1-19); Utah, 2 (20-99).

SIC 3532, Mining machinery and equipment: Northeast—Maine, 1 (20-99); New Hampshire, 1 (500-999); Vermont, 1 (1-19); Massachusetts, 1 (20-99); Connecticut, 1 (1-19); New York, 4 (20-99); New Jersey, 2 (500-999); East North Central—Indiana, 3 (100-249); Michigan, 3 (250-499); Wisconsin, 5 (1,019); West North Central—Iowa, 3 (500-999); Kansas, 2 (250-499); South Atlantic—Virginia, 7 (20-99); North Carolina, 2 (20-99); Georgia, 1 (1-19); Florida, 1 (20-99); East South Central—Kentucky, 5 (20-99); Tennessee, 2 (100-249); Alabama, 1 (1-19); West South Central—Oklahoma, 3 (20-99); Texas, 5 (100-249); Mountain—Colorado, 6 (500-999); Utah, 6 (1,196); Pacific—Washington, 3 (20-99); Oregon, 3 (20-99).

SIC 3533, Oil field machines and equipment: Northeast—Massachusetts, 2 (20-99); Connecticut, 1 (1-19); New York, 1 (1-19); New Jersey, 1 (20-99); East North Central—Indiana, 4 (100-249); Illinois, 4 (100-249); Michigan, 1 (1-19); West North Central—Minnesota, 1 (20-99); Missouri, 3 (20-99); North Dakota, 1 (1-19); Kansas, 8 (500-999); South—West Virginia, 4 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Kentucky, 2 (1-19); Tennessee, 1 (1-19); Mississippi, 1 (250-499); Arkansas, 1 (1-19); Mountain—Wyoming, 1 (1-19); Colorado, 5 (100-249); New Mexico, 3 (100-249); Utah, 3 (250-499); Pacific—Oregon, 1 (1-19); California, 75 (2,500-4,999).

SIC 3534, Elevators and moving stairways: New England—Rhode Island, 1 (1-19); Connecticut, 3 (20-99); Middle Atlantic—New York, 15 (500-999); New Jersey, 4 (3,430); Pennsylvania, 10 (500-999); East North Central—Illinois, 15 (250-499); Michigan, 5 (100-249); West North Central—Missouri, 5 (20-99); Nebraska, 1 (20-99); Kansas, 1 (1-19); South—Maryland, 3 (100-249); Virginia, 2 (20-99); Georgia, 1 (20-99); Tennessee, 3 (250-499); Alabama, 2, (20-99); Arkansas, 1 (1-19); Texas, 3 (20-99); West—Colorado, 1 (1-19); Arizona, 1 (1-19); Washington, 1 (100-249); Oregon, 1 (1-19).

SIC 3535, Conveyors: New England—Rhode Island, 3 (1-19); Connecticut, 4 (20-99); East North Central—Indiana, 9 (20-99); West North Central—Iowa, 9 (100-249); North Dakota, 1 (1-19); South Dakota, 1 (20-99); Nebraska, 3 (20-99); South Atlantic—Maryland, 4 (20-99); West Virginia, 3 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (20-99); Georgia, 5 (250-499); Florida, 3 (20-99); East South Central—Alabama, 1 (500-999); Mississippi, 2 (100-249); West South Central—Arkansas, 1 (1-19); Louisiana, 2 (20-99); Oklahoma, 5 (20-99); Mountain—Colorado, 8 (100-249); Utah, 2 (1-19); Pacific—Washington, 3 (20-99); Oregon, 5 (20-99).

SIC 3536, Hoists, cranes, and monorails: Northeast—Massachusetts, 2 (20-99); Connecticut, 1 (1-19); New York, 4 (500-999); New Jersey, 5 (20-99); Pennsylvania, 6 (250-499); East North Central—Indiana, 3 (250-499); Wisconsin, 3 (250-499); West North Central—Minnesota, 3 (100-249); Iowa, 4 (250-499); South—Tennessee, 1 (100-249); Mississippi, 1 (1-19); Arkansas, 1 (250-499); Texas, 3 (20-99); West—Colorado, 1 (20-99); California, 8 (500-999).

SIC 3537, Industrial trucks and tractors: Middle Atlantic—New Jersey, 5 (20-99); West North Central—Iowa, 6 (100-249); Missouri, 5 (20-99); Kansas, 2 (100-249); South Atlantic—Maryland, 2 (20-99); Virginia, 1 (20-99); North Carolina, 4 (20-99); South Carolina, 2 (20-99); Florida, 1 (1-19); East South Central—Kentucky, 3 (1-19); Tennessee, 3 (100-249); Alabama, 2 (20-99); Mississippi, 2 (100-249); West South Central—Arkansas, 1 (1-19); Louisiana, 2 (20-99); Oklahoma, 1 (1-19); Texas, 6 (100-249); West—Idaho, 1 (1-19); Colorado, 2 (100-249); Utah, 1 (1-19); Washington, 2 (20-99).

<sup>2</sup> Less than \$500 thousand.<sup>3</sup> Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).<sup>4</sup> This state was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such states. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 3.—Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Construction machinery (SIC 3531)	Mining machinery and equipment (SIC 3532)	Oil field machines and equipment (SIC 3533)	Elevators and moving stairways (SIC 3534)	Conveyors (SIC 3535)	Holsts, cranes, and monorails (SIC 3536)	Industrial trucks and tractors (SIC 3537)
Primary product specialization ratio <sup>1</sup> .....	88	72	92	97	81	79	93
Coverage ratio <sup>2</sup> .....	90	77	94	80	78	78	84
Number of establishments, total.....	579	173	389	144	420	81	262
With 1-19 employees.....	284	83	221	68	270	27	166
With 20-99 employees.....	145	55	100	59	103	32	70
With 100 employees or more.....	150	35	68	17	47	22	26
Proprietors and working partners.....Number..	165	69	136	47	160	20	131
All employees:							
Number (average for the year).....	95,304	17,808	31,878	9,626	20,789	9,520	14,786
Payroll.....\$1,000..	496,751	96,966	174,692	55,657	119,431	53,566	76,200
Production workers:							
Number (average for the year).....	66,510	11,661	20,724	5,868	12,698	6,555	9,545
March.....	68,705	12,549	22,863	5,890	12,719	7,423	9,797
May.....	63,689	11,684	20,282	5,837	12,366	6,646	9,463
August.....	65,554	11,289	19,514	5,808	13,219	6,326	9,232
November.....	68,239	11,190	20,316	5,960	12,648	5,814	9,741
Man-hours.....1,000..	124,622	22,578	41,215	11,764	25,584	12,988	18,121
January-March.....do....	32,713	6,425	12,320	2,920	6,416	3,878	4,652
April-June.....do....	31,925	5,460	9,395	2,937	6,273	3,338	4,558
July-September.....do....	30,478	5,195	9,179	2,816	6,434	2,858	4,207
October-December.....do....	29,286	5,439	10,167	3,065	6,325	2,918	4,586
Wages.....\$1,000..	310,252	56,423	101,916	31,156	62,578	32,840	42,982
Cost of materials, etc., total.....do....	1,033,605	167,142	241,854	71,106	186,979	85,484	140,421
Materials, parts, containers, and supplies consumed.....do....	948,778	134,093	194,057	62,717	141,103	78,611	119,560
Cost of resales.....do....	49,145	25,729	38,515	3,597	35,596	3,804	10,540
Fuels consumed.....do....	8,678	1,351	1,819	427	1,213	577	660
Electricity purchased.....do....	10,427	1,651	3,397	625	1,511	786	1,204
Contract work.....do....	16,549	4,318	4,065	3,740	7,556	1,706	8,457
Value of shipments (including resales), total.....do....	2,107,352	342,035	585,268	192,806	385,714	184,722	269,328
Value of resales.....do....	65,377	31,445	44,397	3,400	43,911	5,118	14,348
Value added by manufacture, adjusted...do....	1,022,801	165,831	336,788	126,270	192,892	92,759	117,500
Manufacturers' inventories:							
Beginning of year, total.....do....	649,069	121,428	192,319	45,967	74,782	54,419	84,274
Finished products.....do....	210,376	49,245	86,197	12,428	17,047	6,698	23,429
Work-in-process.....do....	215,901	39,978	41,362	11,506	22,387	24,635	38,160
Materials, supplies, fuel, etc.....do....	222,792	32,205	64,760	22,032	35,348	23,086	22,685
End of year, total.....do....	577,256	106,047	174,017	48,433	63,107	43,732	75,379
Finished products.....do....	174,581	50,546	84,904	14,004	15,796	5,886	22,572
Work-in-process.....do....	200,750	29,615	36,029	14,500	17,795	18,968	27,610
Materials, supplies, fuel, etc.....do....	201,925	25,886	53,084	19,929	29,516	18,878	25,197
Expenditures for plant and equipment, total.....do....	46,747	6,872	20,384	2,442	6,414	5,271	3,729
New, total.....do....	44,810	6,507	18,341	2,321	7,197	5,056	3,344
New structures and additions to plant.....do....	10,020	1,656	6,303	537	2,174	742	1,203
New machinery and equipment.....do....	34,790	4,851	12,038	1,784	5,023	4,314	2,141
Used plant and equipment.....do....	1,937	365	2,043	121	407	215	515

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>Revised</sup>

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3531	Construction machinery:											
	Number of establishments.....	579	148	62	74	91	54	75	29	26	14	6
	All employees:											
	Number.....	95,304	307	411	999	2,906	3,750	11,922	9,899	17,463	19,624	28,023
	Payroll.....\$1,000..	496,751	1,267	2,003	5,248	15,210	19,026	62,786	53,755	92,372	108,339	136,745
	Value added, adjusted..do....	1,022,801	3,390	3,594	10,685	29,978	30,350	111,783	79,905	185,891	165,827	401,398
	Value of shipments.....do....	2,107,352	7,533	7,695	20,894	58,700	65,839	252,592	178,947	423,876	375,496	715,780
	Capital expend., new...do....	44,810	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,735	1,526	4,389	6,629	8,709	6,363	14,445
3532	Mining machinery and equipment:											
	Number of establishments.....	173	45	11	27	32	23	20	6	6	2	1
	All employees:											
	Number.....	17,808	109	70	358	1,015	1,612	3,093	2,003	4,717	<u>4,831</u>	(D)
	Payroll.....\$1,000..	96,966	541	379	2,073	5,636	9,039	17,827	11,077	25,396	<u>24,998</u>	(D)
	Value added, adjusted..do....	165,831	1,114	709	4,167	11,104	17,770	31,691	15,969	42,418	<u>40,889</u>	(D)
	Value of shipments.....do....	342,035	2,480	1,392	8,989	23,120	32,495	64,232	38,141	93,627	<u>77,559</u>	(D)
	Capital expend., new...do....	6,507	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	811	1,482	553	1,984	<u>1,158</u>	(D)
3533	Oil-field machines and equipment:											
	Number of establishments.....	389	107	42	72	62	38	34	22	8	3	1
	All employees:											
	Number.....	31,878	219	287	995	2,002	2,679	5,630	7,204	5,177	<u>7,685</u>	(D)
	Payroll.....\$1,000..	174,692	1,045	1,330	5,488	10,815	14,407	29,736	39,629	27,194	<u>45,048</u>	(D)
	Value added, adjusted..do....	336,788	3,043	2,344	10,876	21,539	30,458	56,924	64,967	46,356	<u>100,281</u>	(D)
	Value of shipments.....do....	585,268	6,120	4,822	18,566	37,677	57,206	104,845	136,797	3,817	<u>145,418</u>	(D)
	Capital expend., new...do....	18,341	( <sup>1</sup> )	( <sup>1</sup> )	559	1,139	802	3,465	1,749	5,229	<u>5,049</u>	(D)
3534	Elevators and moving stairways:											
	Number of establishments.....	144	22	21	25	36	23	11	4	...	2	...
	All employees:											
	Number.....	9,626	50	131	336	1,118	1,588	1,818	4,585	...	(D)	...
	Payroll.....\$1,000..	55,657	204	622	1,717	6,174	8,563	9,603	28,774	...	(D)	...
	Value added, adjusted..do....	126,270	448	1,225	2,759	9,113	14,839	23,755	<u>74,131</u>	...	(D)	...
	Value of shipments.....do....	192,806	849	2,166	5,127	17,439	25,974	35,467	<u>105,784</u>	...	(D)	...
	Capital expend., new...do....	2,321	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	724	<u>985</u>	...	(D)	...
3535	Conveyors:											
	Number of establishments.....	420	114	73	83	77	26	27	10	10	...	...
	All employees:											
	Number.....	20,789	252	509	1,121	2,468	1,888	4,115	3,754	6,682	...	...
	Payroll.....\$1,000..	119,431	1,149	2,602	6,178	13,805	10,540	24,859	22,750	37,548	...	...
	Value added, adjusted..do....	192,892	2,402	4,522	10,589	20,865	19,955	37,738	34,694	62,127	...	...
	Value of shipments.....do....	385,714	5,117	9,127	22,829	43,637	37,919	81,281	62,440	123,364	...	...
	Capital expend., new...do....	7,197	936	( <sup>1</sup> )	1,390	( <sup>1</sup> )	( <sup>1</sup> )	887	693	2,243	...	...
3536	Hoists, cranes, and monorails:											
	Number of establishments.....	81	2	2	23	21	11	12	5	4	1	...
	All employees:											
	Number.....	9,520	18	(D)	360	677	717	2,051	1,694	4,003	(D)	...
	Payroll.....\$1,000..	53,566	75	(D)	2,133	3,749	4,069	10,896	8,914	<u>23,730</u>	(D)	...
	Value added, adjusted..do....	92,759	<u>158</u>	(D)	3,488	6,961	6,381	17,871	16,573	<u>41,327</u>	(D)	...
	Value of shipments.....do....	184,722	<u>248</u>	(D)	7,593	14,088	13,956	34,331	30,925	<u>83,581</u>	(D)	...
	Capital expend., new...do....	5,056	( <sup>1</sup> )	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	692	<u>3,366</u>	(D)	(D)
3537	Industrial trucks and tractors:											
	Number of establishments.....	262	79	50	37	49	21	15	4	5	1	1
	All employees:											
	Number.....	14,786	145	321	491	1,464	1,435	2,195	1,368	7,367	(D)	(D)
	Payroll.....\$1,000..	76,200	501	1,354	2,126	7,016	7,035	10,529	7,136	<u>40,503</u>	(D)	(D)
	Value added, adjusted..do....	117,500	1,114	2,604	3,941	11,599	11,258	14,475	8,438	<u>64,071</u>	(D)	(D)
	Value of shipments.....do....	269,328	2,885	5,250	8,235	23,712	25,087	34,230	30,409	<u>139,520</u>	(D)	(D)
	Capital expend., new...do....	3,344	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	536	( <sup>1</sup> )	( <sup>1</sup> )	579	<u>957</u>	(D)	(D)

Note: Detailed figures may not add to the totals because of independent roundings.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3531	Construction machinery.....1958..	2,107,352	1,795,042	233,328	78,982	88	1,989,241	1,795,042	194,199	90
3532	Mining machinery and equipment..1958..	342,035	215,050	83,780	43,205	72	277,782	215,050	62,732	77
3533	Oil field machines equipment....1958..	585,268	467,886	41,427	75,955	92	496,149	467,886	28,263	94
	1954..	542,500	437,696	54,771	50,033	89	468,716	437,696	31,020	93
3534	Elevators and moving stairways..1958..	192,806	132,362	4,658	55,786	97	165,277	132,362	32,915	80
	1954..	167,494	113,875	16,767	36,852	87	128,102	113,875	14,227	89
3535	Conveyors.....1958..	385,714	260,700	59,597	65,417	81	333,877	260,700	73,177	78
3536	Hoists, cranes, and monorails...1958..	184,722	128,355	35,143	21,224	79	165,544	128,355	37,189	78
3537	Industrial trucks and tractors..1958..	269,328	231,445	18,176	19,707	93	276,674	231,445	45,229	84
	1954..	260,065	211,154	28,325	20,584	88	254,822	211,154	43,668	83

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Construction machinery industry	Construction machinery (SIC 3531)	Other Industries	All Industries
	Total shipments and receipts of the industry.....	2,107,352	xxx	xxx
	Primary products, total.....	1,795,042	194,199	1,989,241
35311	Contractors' off-highway wheel tractors.....	86,077	13,879	89,956
35312	Tracklaying type tractors.....	(D)	(D)	287,300
35313	Parts and attachments for tracklaying and contractors' off-highway wheel tractors.....	237,166	234,906	272,072
35314	Power cranes, draglines, shovels and parts.....	327,238	333,830	361,068
35316	Mixers, pavers and related equipment.....	91,124	10,784	101,908
35317	Integral tractor shovel loaders.....	(D)	(D)	142,890
35318	Scrapers, graders, rollers and off-highway trucks, trailers and wagons.....	297,713	28,289	326,002
35319	Other construction machinery and equipment.....	325,274	57,816	383,090
35310	Construction machinery, not specified by kind.....	(D)	(D)	24,955
	Secondary products, total.....	233,328	xxx	xxx
33230	Steel castings.....	4,914	xxx	xxx
34336	Other heating equipment, except electric.....	2,678	xxx	xxx
3441-	Fabricated structural steel.....	3,485	xxx	xxx
3443-	Boiler shop products.....	8,672	xxx	xxx
3519-	Internal combustion engines.....	761,202	xxx	xxx
3522-	Farm machinery and equipment.....	29,435	xxx	xxx
35322	Crushing, pulverizing, screening plants, stationary.....	21,704	xxx	xxx
35323	All other mining machinery and equipment.....	7,214	xxx	xxx
3533-	Oil field machinery and equipment.....	5,694	xxx	xxx
35351	Conveyors and conveying equipment.....	8,983	xxx	xxx
35361	Hoists.....	7,412	xxx	xxx
35362	Overhead traveling cranes and monorail systems.....	12,383	xxx	xxx
35370	Industrial trucks and tractors.....	5,578	xxx	xxx
3559-	Special industrial machinery, nec.....	3,221	xxx	xxx
3566-	Mechanical power transmission equipment.....	2,769	xxx	xxx
37130	Truck and bus bodies for sale separately.....	4,099	xxx	xxx
3717-	Motor vehicles and parts.....	5,069	xxx	xxx
	Other.....	38,816	xxx	xxx
	Miscellaneous receipts, total.....	78,982	xxx	xxx
	Contract and commission work.....	7,599	xxx	xxx
	Sales of products bought and resold.....	65,377	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	6,006	xxx	xxx

Prod. class code	Mining machinery and equipment industry	Mining machinery and equipment (SIC 3532)	Construction machinery (SIC 3531)	Other industries	All industries
	Total shipments and receipts of the industry.....	342,035	xxx	xxx	xxx
	Primary products, total.....	215,050	29,077	33,655	277,782
35321	Underground mining machinery and equipment.....	58,756	159	25,752	64,667
35322	Crushing, pulverizing and screening plants stationary.....	41,598	21,704	107,009	70,311
35323	All other mining machinery and equipment.....	114,696	7,214	120,894	142,804
	Secondary products, total.....	83,780	xxx	xxx	xxx
3531-	Construction machinery and equipment.....	129,802	xxx	xxx	xxx
35451	Small cutting tools for machine tools and metalworking machinery.....	2,319	xxx	xxx	xxx
3559-	Special industry machinery, nec.....	139,557	xxx	xxx	xxx
	Other.....	142,102	xxx	xxx	xxx
	Miscellaneous receipts, total.....	43,205	xxx	xxx	xxx
	Contract and commission work.....	1,896	xxx	xxx	xxx
	Sales of products bought and resold.....	31,445	xxx	xxx	xxx
	Scrap and salable refuse.....	8,450	xxx	xxx	xxx
	Other.....	1,414	xxx	xxx	xxx

See footnotes at end of table.



**Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued**

Prod. class code	Oil field machines and equipment industry	Oil field machines and equipment (SIC 3533)	Other industries	All industries
	Total shipments and receipts of the industry.....	585,268	xxx	xxx
	Primary products, total.....	467,886	28,263	496,149
35351	Rotary oil and gas field drilling machinery.....	210,498	4,183	214,681
35352	Other oil and gas field drilling machinery.....	49,986	712	50,698
35353	Oil and gas field production machinery.....	162,945	<sup>15</sup> 12,508	175,453
35354	Other oil and gas field machinery and tools.....	29,927	<sup>16</sup> 10,788	40,715
35355	Oil field machinery and equipment, nsk.....	14,530	72	14,602
	Secondary products, total.....	41,427	xxx	xxx
35356	Boiler shop products.....	5,028	xxx	xxx
35357	Metal valves for piping systems.....	6,686	xxx	xxx
35358	Pumps and compressors, nec.....	8,363	xxx	xxx
	Other.....	<sup>17</sup> 21,350	xxx	xxx
	Miscellaneous receipts, total.....	75,955	xxx	xxx
	Contract and commission work.....	12,096	xxx	xxx
	Sales of products bought and resold.....	44,397	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	17,074	xxx	xxx
	Other.....	2,388	xxx	xxx
Prod. class code	Elevators and moving stairways industry	Elevators and moving stairways (SIC 3534)	Other industries	All industries
	Total shipments and receipts of the industry.....	192,806	xxx	xxx
35340	Elevators and moving stairways.....	132,362	<sup>18</sup> 32,915	165,277
	Secondary products.....	4,658	xxx	xxx
	Miscellaneous receipts, total.....	55,786	xxx	xxx
	Sales of products bought and resold.....	3,400	xxx	xxx
	Installation work by manufacturing plant employees.....	51,941	xxx	xxx
	Other.....	445	xxx	xxx
Prod. class code	Conveyors industry	Conveyors (SIC 3535)	Other industries	All industries
	Total shipments and receipts of the industry.....	385,714	xxx	xxx
3535	Primary products, total.....	260,700	73,177	333,877
35351	Conveyors and conveying equipment (except hoists and farm elevators).....	199,870	<sup>19</sup> 48,124	247,994
35352	Parts, attachments, and accessories for conveyors and systems (sold separately).....	47,874	<sup>20</sup> 24,147	72,021
35350	Conveyors and conveying equipment (except hoists) nsk.....	12,956	906	13,862
	Secondary products, total.....	59,597	xxx	xxx
35352-	Mining machinery and equipment.....	215,247	xxx	xxx
35356-	Hoists, cranes, and monorails.....	224,843	xxx	xxx
35370	Industrial trucks and tractors.....	2,492	xxx	xxx
35359-	Special industry machinery, nec.....	234,506	xxx	xxx
35366-	Power transmission equipment.....	243,346	xxx	xxx
	Other secondary products.....	<sup>25</sup> 39,163	xxx	xxx
	Miscellaneous receipts, total.....	65,417	xxx	xxx
	Sales of products bought and resold.....	43,911	xxx	xxx
	Installation work by manufacturing plant employees.....	19,683	xxx	xxx
	Other.....	1,823	xxx	xxx
Prod. class code	Hoists, cranes, and monorails industry	Hoists, cranes, and monorails (SIC 3536)	Other industries	All industries
	Total shipments and receipts of the industry.....	184,722	xxx	xxx
35361	Primary products, total.....	128,355	37,189	165,544
35362	Hoists.....	39,299	<sup>26</sup> 20,102	59,401
	Overhead traveling cranes and monorails systems.....	89,056	<sup>27</sup> 17,087	106,143
	Secondary products, total.....	35,143	xxx	xxx
35314	Power cranes, draglines, and shovels.....	3,216	xxx	xxx
35319	Other construction machinery and equipment.....	2,940	xxx	xxx
3535-	Conveyors.....	2,856	xxx	xxx
35370	Industrial trucks and tractors.....	3,706	xxx	xxx
	Other secondary products.....	<sup>28</sup> 22,425	xxx	xxx
	Miscellaneous receipts, total.....	21,224	xxx	xxx
	Sales of products bought and resold.....	5,118	xxx	xxx
	Installation work by manufacturing plant employees.....	16,106	xxx	xxx

See footnotes at end of table.

**Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued**

Prod. class code	Industrial trucks and tractors industry	Industrial trucks and tractors (SIC 3537)	Other industries	All industries
	Total shipments and receipts of the industry.....	269,328	xxx	xxx
35370	Industrial trucks and tractors.....	231,445	<sup>29</sup> 45,229	276,674
	Secondary products, total.....	18,176	xxx	xxx
3429-	Hardware, nec.....	2,206	xxx	xxx
3531-	Construction machinery.....	2,602	xxx	xxx
	Other secondary products.....	<sup>90</sup> 13,368	xxx	xxx
	Miscellaneous receipts, total.....	19,707	xxx	xxx
	Contract and commission work.....	1,680	xxx	xxx
	Sales of products bought and resold.....	14,348	xxx	xxx
	Repair work.....	3,522	xxx	xxx
	Other.....	157	xxx	xxx

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Includes Industry 3522, Farm Machinery and Equipment, with shipments of \$2 million or more which are withheld to avoid disclosing figures of individual companies.

<sup>2</sup>Includes \$17,978 thousand shipped by Industry 3522, Farm Machinery and Equipment; \$10,797 thousand shipped by Industry 3717, Motor Vehicles and Parts. In addition, shipments by Industry 3537, Industrial Trucks and Tractors total \$2 million or more but are withheld to avoid disclosing figures of individual companies.

<sup>3</sup>Includes \$3,216 thousand shipped by Industry 3536, Hoists, Cranes, and Monorails, and \$2,165 thousand by Industry 3566, Power Transmission Equipment. In addition, the following industries had shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: Industry 3449, Miscellaneous Metal Work, NEC; Industry 3532, Mining Machinery and Equipment; Industry 3717, Motor Vehicles and Parts; and Industry 3731, Ship Building and Repairing.

<sup>4</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing figures of individual companies: Industry 3433, Nonelectric Heating Equipment and Industry 3561, Pumps and Compressors.

<sup>5</sup>Includes \$8,082 thousand shipped by Industry 3522, Farm Machinery and Equipment and \$15,320 thousand shipped by Industry 3717, Motor Vehicles and Parts.

<sup>6</sup>Includes \$3,339 thousand shipped by Industry 3441, Fabricated Structural Steel; \$2,817 thousand shipped by Industry 3522, Farm Machinery and Equipment; \$20,049 thousand shipped by Industry 3532, Mining Machinery and Equipment; \$2,940 thousand by Industry 3536, Hoists, Cranes, and Monorails; \$2,477 thousand by Industry 3662, Radio, TV, Communication Equipment. In addition, the following industries had shipments of \$2 million or more, but are withheld to avoid disclosing figures of individual companies: Industry 3481, Fabricated Wire Products, NEC; and Industry 3742, Railroad and Street Cars.

<sup>7</sup>Includes shipments of product class 35197, Parts and accessories for internal combustion engines, valued at \$26,791 thousand.

<sup>8</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 34291, Transportation equipment hardware, nec; 34990, Fabricated metal products, nec; and 36791, Solid state semiconductor devices.

<sup>9</sup>Includes \$2,436 thousand shipped by Industry 3742, Railroad and Street Cars.

<sup>10</sup>Includes \$4,318 thousand shipped by Industry 3535, Conveyors.

<sup>11</sup>Includes \$4,908 thousand shipped by Industry 3545, Machine Tool Accessories; and \$2,336 by Industry 3561, Pumps and Compressors. In addition, the following industries had shipments of \$2 million but are withheld to avoid disclosing figures of individual companies. Industry 3494, Valves and Pipe Fittings, and Industry 3569, General Industry Machinery, NEC.

<sup>12</sup>Includes product class 35319, Other construction machinery and equipment valued at \$20,049 thousand.

<sup>13</sup>Includes product class 35595, Other special industry machinery and equipment, valued at \$8,673 thousand.

<sup>14</sup>Includes shipments of the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 34411, Fabricated iron and structural steel for buildings; 35351, Conveyors and conveying equipment; 35352, Parts, attachments, and accessories for conveyors and systems; 35513, Other industrial food products machinery; and 35663, Other mechanical power transmission equipment.

<sup>15</sup>Includes Industry 3443, Boiler Shop Products with shipments of \$2 million or more which are withheld to avoid disclosing figures of individual companies.

<sup>16</sup>Includes \$4,181 thousand shipped by Industry 3561, Pumps and Compressors. In addition, Industry 3531, Construction Machinery, had shipments of \$2 million or more which are withheld to avoid disclosing figures of individual companies.

<sup>17</sup>Includes shipments of product class 35911, Drop, upset, and press steel forgings (closed die) which total \$2 million or more but are withheld to avoid disclosing figures of individual companies.

<sup>18</sup>Includes shipments by the following industries which totaled \$2 million or more but which are withheld to avoid disclosing figures of individual companies: Industry 3481, Fabricated Wire Products, NEC and 3949, Sporting and Athletic Goods, NEC.

<sup>19</sup>Includes shipments of \$8,985 thousand by Industry 3531, Construction Machinery. In addition, the following industries had shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: Industry 3429, Hardware, NEC; Industry 3522, Farm Machinery and Equipment; Industry 3532, Mining Machinery and Equipment; Industry 3564, Blowers and Fans; and Industry 3599, Machine Shops.

<sup>20</sup>Includes shipments of \$2,132 thousand by Industry 3536, Hoists, Cranes, and Monorails; and \$12,394 thousand by Industry 3566, Power Transmission Equipment. In addition, Industry 3532 had shipments of \$2 million or more which are withheld to avoid disclosing figures of individual companies.

<sup>21</sup>Includes product class 35322, Crushing, pulverizing, and screening plants (stationary), \$4,062 thousand.

<sup>22</sup>Includes product class 35362, Overhead traveling cranes and monorail systems, \$4,486 thousand.

<sup>23</sup>Includes product class 35595, Other special industry machinery and equipment, \$3,521 thousand.

<sup>24</sup>Includes product class 35663, Other mechanical power transmission equipment, \$2,972 thousand.

<sup>25</sup>Includes shipments of the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 35623, Mounted bearings, and 35690, General industrial machinery, nec.

<sup>26</sup>Includes \$7,412 thousand shipped by Industry 3531, Construction Machinery. In addition, the following industries had shipments of \$2 million or more which are withheld to avoid disclosing figures of individual companies: Industry 3537, Industrial Trucks and Tractors; and Industry 3548, Metalworking Machinery, NEC.

<sup>27</sup>Includes \$2,969 thousand shipped by Industry 3535, Conveyors. In addition, Industry 3531, Construction Machinery, had shipments of \$2 million or more which were withheld to avoid disclosing figures of individual companies.

<sup>28</sup>Includes shipments of the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 35591, Chemical manufacturing industries machinery and equipment, and 37311, Nonpropelled ships, barges, etc. (new construction).

<sup>29</sup>Includes \$5,578 thousand shipped by Industry 3531, Construction Machinery; \$2,492 thousand by Industry 3535, Conveyors; \$3,706 thousand by Industry 3536, Hoists, Cranes, and Monorails. In addition, the following industries had shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: Industry 3519, Internal Combustion Engines; and Industry 3717, Motor Vehicles and Parts.

<sup>30</sup>Includes product class 35361, Hoists, with shipments of \$2 million or more which are withheld to avoid disclosing figures of individual companies.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Production for all purposes (number of units)	Total shipments including interplant transfers			
			1958		1954	
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3531--	Construction machinery and equipment, total.....	xxx	xxx	1,989,241	xxx	1,410,685
	Tractors, total.....	xxx	xxx	649,328	xxx	484,358
	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	xxx	1,623,009	xxx	468,155
	As reported on Census Forms MA-35A and MA-35T, total <sup>1</sup> .....	xxx	xxx	1,610,813	xxx	xxx
3531110	Wheel tractors, contractors off-highway type <sup>2</sup> .....	xxx	4,088	85,480	3,019	46,801
	By type:					
	2 wheel.....	xxx	2,824	57,828	3,019	46,801
	4 wheel.....	xxx	1,264	27,652		
	By horsepower rating:					
	Under 170 brake hp.....	xxx	695	8,529	16,576	173,732
	170-249 brake hp.....	xxx	1,254	22,639		
	250 brake hp and over.....	xxx	2,139	54,312		
3531210	Tracklaying tractors <sup>3</sup> .....	24,226	28,450	266,570	40,374	267,918
	Under 50 drawbar hp.....	12,051	10,991	30,854	23,798	94,186
	50-74 drawbar hp.....	3,929	4,806	29,480	16,576	173,732
	75-99 drawbar hp.....	2,042	3,379	34,137		
	100-154 drawbar hp.....	6,204	4,551	65,617		
	155 drawbar hp and over.....		4,723	106,482		
3531365	Attachments and parts for wheel tractors (contractors off-highway type).....	xxx	xxx	35,360	xxx	18,188
	Attachments.....	xxx	xxx	2,595	xxx	1,445
	Parts (for replacement and repair).....	xxx	xxx	32,765	xxx	16,743
3531313	Attachments and parts for tracklaying tractors.....	xxx	xxx	223,403	xxx	135,248
	Attachments.....	xxx	xxx	23,759	xxx	18,837
	Parts (for replacement and repair).....	xxx	xxx	199,644	xxx	116,411
3531361	Parts sold to other plants producing tracklaying tractors and contractors' off-highway type wheel tractors.....	xxx	xxx	26,319	xxx	16,203
Total shipments including interplant transfers						
			1958		1954	
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Construction machinery, except tractors.....	xxx		1,339,913	xxx	926,327
	Products included on the Census of Manufactures, but not on Census Quarterly Form M-35D or Annual Form MA-35D.....	xxx		505,700	xxx	447,724
35316--	Mixers, pavers, and related equipment, excluding parts: Concrete:					
3531612	Mixers, portable under 3-1/2 cu. ft. capacity (except plaster and mortar), hand or power operated.....	18,680		1,403	30,816	2,560
3531631	Mixers, plaster and mortar.....	7,364		3,234	5,907	2,382
3531634	Pavers, finishers and spreaders.....	1,510		8,451	372	4,028
3531639	Concrete vibrators.....	(NA)		2,858	5,918	2,276
3531652	Other materials--aggregate spreaders and soil stabilization pavers.....	5,793		4,364	2,596	2,363
3531600	Mixers, pavers and related equipment, nsk.....	xxx		3,767	xxx	1,272
35319--	Other construction machinery and equipment, including other construction machinery parts:					
	Excavating and road construction and maintenance machinery, except shovels and cranes:					
3531911	Dredging machinery, hydraulic and other types.....	xxx		10,668	xxx	8,172
3531921	Railway maintenance of way equipment (rail layers, ballast spreaders, etc.), except rail cars.....	xxx		19,965	xxx	12,134
3531931	Pulverizers and grinders, portable.....	157		3,469	(4)	(4)
	Winches:					
3531952	Winches, except winches for mounting on wheel or tracklaying tractors.....	26,334		17,108	(NA)	27,182
3531971	Derricks, except oil and gas well (includes gallows, frames, ginpole, stiff legs and guys).....	708		919	(NA)	1,851
3531981	Snow plows (for mounting on tractors or trucks) rotary, blowers, "V" and single blades and wings (attachments only).....	22,157		10,337	(NA)	6,349
3531983	Other excavating and road construction machinery (includes earth augers and power post-hole diggers, drawn ditchers and trenchers, contractors' hand held air tools, motor pick-up sweepers, graders (other than motor graders) drawn rollers, as well as other types of excavating and earth moving equipment.....	xxx		39,730	xxx	73,101

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Construction machinery, except tractors—Continued				
	Other construction machinery and equipment—Continued				
	Excavating and road construction and maintenance machinery—Continued				
3531985	Parts and attachments for construction machinery and equipment (sold separately) (except parts and attachments for power cranes, draglines and shovels).....	xxx	198,118	xxx	<sup>5</sup> 194,224
3531481	Front-end attachments, buckets, grapples, slings, etc., for power cranes, draglines and shovels (sold separately).....	xxx	18,486	xxx	13,601
3531485	Parts for power cranes, draglines and shovels.....	xxx	95,391	xxx	75,486
3531998	All other construction machinery and equipment (complete units).....	xxx	30,938	xxx	<sup>6</sup> 20,743
3531910	Excavating and road construction machinery, nsk.....	xxx	4,458	xxx	...
3531000	Construction machinery, nsk.....	xxx	32,036	xxx	...
	Products included in the Census of Manufactures and on Census Quarterly Form M-35D or Annual Form MA-35D: <sup>1</sup>				
	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	<sup>1</sup> 834,213	xxx	478,603
	As reported on Census Quarterly Form M-35D.....	xxx	<sup>1</sup> 818,194	xxx	...
	Off-highway equipment (off-highway wheel tractors) (truck type) haulers, trailers, and wagons, total.....	xxx	44,229	(7)	(7)
	Off-highway type haulers:				
	Under 16 tons capacity.....	690	9,061	(7)	(7)
	16 tons up to but not including 30 tons capacity.....	1,016	30,007	(7)	(7)
	30 tons capacity and over.....				
	Off-highway trailers and wagons:				
	Under 12 cubic yards standard struck capacity.....	424	5,161	(7)	(7)
	12 cubic yards and under 18 cubic yards standard struck capacity.....				
	18 cubic yards standard struck capacity and over.....				
	Tractor shovel loaders (integral units only), total.....	14,398	157,889	(7)	(7)
	Wheel type, standard bucket capacity:				
	Under 1 cubic yard.....	1,388	6,337	(7)	(7)
	1 cubic yard and under 1-1/2 cubic yards.....	2,416	21,885	(7)	(7)
	1-1/2 cubic yards and over.....	2,853	41,755	(7)	(7)
	Tracklaying type, standard bucket capacity:				
	Under 1-1/2 cubic yards.....	2,193	17,122	(7)	(7)
	1-1/2 cubic yards and under 2-1/4 cubic yards.....	4,239	47,246	(7)	(7)
	2-1/4 cubic yards and over.....	1,309	23,544	(7)	(7)
	Locomotive (except wrecking) cranes.....	36	2,656	146	8,168
	Power cranes, draglines and shovels, including mine shovels, but not including equipment for mounting on tractors, total.....	xxx	216,458	xxx	179,604
	Crawler mounted, rated shovel capacity:				
	Under 1/2 cubic yard.....	275	2,136	274	2,412
	1/2 cubic yard.....	592	9,145	887	11,577
	3/4 cubic yard.....	1,406	30,549	2,073	36,769
	1 cubic yard.....	708	22,456	968	29,714
	1-1/4 cubic yards.....	70	2,532		
	1-1/2 cubic yards.....	309	13,922		
	1-3/4 cubic yards.....	45	2,078	216	10,630
	2 cubic yards.....	67	3,451		
	2-1/2 cubic yards.....	269	18,914		
	Over 2-1/2 cubic yards.....	307	41,231	155	25,088
	Rubber tire cranes (truck or wheel mounted), maximum working load:				
	Up to and including 10 tons.....	1,224	10,220	1,757	16,348
	Over 10 and up to and including 15 tons.....	313	7,333	608	13,426
	Over 15 and up to and including 20 tons.....	516	18,622		
	Over 20 and up to and including 25 tons.....	200	7,062		
	Over 25 and up to and including 30 tons.....	78	3,502	288	8,937
	Over 30 and up to and including 35 tons.....	154	8,176		
	Over 35 and up to and including 45 tons.....	52	2,890		
	Over 45 tons.....	18	1,487		
	Walking draglines and walking cranes.....	22	10,752	20	8,205
	Mixers, pavers, and related equipment.....	xxx	91,071	xxx	56,086
	Concrete mixers, portable, 3-1/2 cubic feet and over (except plaster and mortar) truck mixer or agitator type.....	<sup>r</sup> 5,740	<sup>r</sup> 24,071	8,830	21,475
	Other.....	<sup>r</sup> 11,638	<sup>r</sup> 8,481		
	Concrete batching plants, bin and batch (for concrete, aggregate only and bulk cement).....	1,086	15,025	1,030	7,224
	Bituminous mixers, pavers and related equipment:				
	Distributors.....	785	3,403	810	2,628

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Construction machinery, except tractors—Continued				
	Products included in the Census of Manufactures and on Census Quarterly Form M-35D or Annual Form MA-35D <sup>1</sup> —Continued				
	As reported on Census Quarterly Form M-35D—Continued				
	Mixers, pavers and related equipment—Continued				
	Bituminous mixers, pavers and related equipment— Continued				
	Central mixing plants:				
	Batch type.....	278	23,516	xxx	24,759
	Continuous type.....	153	12,262	xxx	
	Other (such as portable mixers, heating kettles, heaters and circulators).....	3,305	4,313	xxx	
	Crushing plants, screening plants, washing plants, and combination plants, portable.....	1,201	29,129	(NA)	18,252
	Ditchers and trenchers, scrapers and rollers and compactors, total.....	xxx	86,683	xxx	50,485
	Self propelled ditchers and trenchers:				
	Ladder-type:				
	Pneumatic tire mounted.....	905	1,647	256	2,954
	Crawler mounted.....	305	2,372		
	Wheel type.....	286	4,136	449	4,519
	Scrapers, dig, carrying and hauling:				
	7 cubic yard and under 12 cubic yard:				
	2-wheel.....	792	5,235	3,577	27,380
	4-wheel.....	390	2,007		
	12 cubic yard and under 18 cubic yard, 2- and 4-wheel	1,206	12,045		
	18 cubic yard and over, 2- and 4-wheel.....	1,582	26,949		
	Rollers and compactors:				
	Rollers, self-propelled:				
	3-wheeled.....	495	3,631	622	3,987
	Portable.....	443	804	279	750
	Tandem 2 and 3 axle.....	1,828	7,819	1,521	6,528
	Other, including tamping and sheepsfoot, compaction, pneumatic tire, tampers, and trench..				
	Compactors:	6,533	20,038	2,051	4,367
	Full type, all sizes.....				
	Self-propelled.....				
	Motor graders and light maintainers.....	6,852	82,016	7,236	64,493
	Under 75 brake hp.....	1,049	5,375	7,236	64,493
	75-114 brake hp.....	944	10,836		
	115 brake hp. and over.....	4,859	65,805		
	Construction machinery for mounting on tractors.....	xxx	86,737	xxx	72,091
	Sidebooms or pipehandlers.....	450	2,457	(7)	(7)
	Dozers, (6' blade length and over):				
	Hydraulically operated:				
	For wheel tractors.....	551	559	18,307	35,047
	For crawler tractors.....	11,766	16,347		
	Cable operated (for wheel and crawler tractors).....	6,297	14,570		
	Backhoes.....	10,031	18,873	(7)	(7)
	Front-end loaders (3/8 cubic yards and over), nonfarm type <sup>8</sup> .....	13,657	9,581	11,916	26,135
	Logging arches.....	72	200	(7)	(7)
	Power control units (cable and hydraulic).....	17,173	18,220	98,916	910,909
	Rippers and rooters, heavy rear-mounted.....	4,113	5,930	(7)	(7)
	Cranes (except construction power cranes):				
	Full circle revolving with booms (such as whirleys and hammerheads).....	xxx	21,326	100	10,730
	Other cranes (including locomotive wrecking).....	xxx		(NA)	16,908
	Other construction machinery <sup>10</sup> .....	xxx		xxx	1,786
3532---	Mining machinery and equipment, except oil-field machinery and equipment, total.....	xxx	277,782	xxx	144,745
35321--	Underground mining machinery and equipment.....	xxx	64,667	xxx	61,515
3532111	Coal cutting machines (whether used for coal or other soft minerals).....	123	5,663	287	4,636
3532132	Underground loaders, includes mobile loading machines (includes shovel and gathering types), scraper loaders and other types.....	609	9,210	950	11,039
3532141	Continuous mining machines.....	116	10,736	98	6,661
3532151	Mineral classifying, flotation, separating, concentrating, cleaning, sedimentation, clarifying and related equipment (except screening machinery and plants).....	xxx	19,223	xxx	23,497

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3532----	Mining machinery and equipment—Continued				
	Underground mining machinery and equipment—Continued				
	Underground mine cars:				
3532173	Shuttle cars.....	(NA)	8,547	(NA)	14,788
3532175	Other mine cars (include car dumpers).....	xxx	6,401	(NA)	
3532100	Underground mining machinery, nsk.....	xxx	4,887	xxx	894
35322--	Crushing, pulverizing, and screening plants, stationary.....	xxx	70,311	xxx	46,644
3532215	Crushers and crushing plants (includes jar, roll, gyratory, hammer mills, etc.) stationary type (includes crushers on skids).....	1,877	33,887	1,040	16,643
3532235	Pulverizers and grinders, stationary.....	1,060	11,620	41,192	41,215
3532255	Screening plants; washing plants, and combination washing and screening plants (includes combination crushing, washing, and screening plants), stationary type.....	3,333	23,681	(NA)	16,992
3532200	Crushing, pulverizing and screening plants, stationary, nsk...	xxx	1,123	xxx	1,794
35323--	All other mining machinery and equipment.....	xxx	142,804	xxx	36,586
	Drills, mining and construction (other than oil and gas field, water well, and blast hole portable drilling rigs):				
3532313	Core drills complete (except core drilling attachments to be used with other drills).....	344	984	420	2,069
	Portable rock drills, hand held or mounted:				
3532321	Mining.....	r6,654	r3,874	18,015	8,775
3532325	Construction.....	r12,786	r9,669		
	Percussion rock drill bits:				
3532331	Containing tungsten carbide.....	xxx	12,155	xxx	25,742
3532335	Made entirely of steel.....	xxx	2,225	xxx	
3532341	Other drills, and tools and supplies for drills (sold separately).....	xxx	22,743	xxx	
	All other mining machinery and equipment:				
3532371	Complete units.....	xxx	16,904	xxx	(6)
3532375	Parts and attachments for mining machinery and equipments (sold separately).....	xxx	71,749	xxx	(5)
3532300	All other mining machinery and equipment, nsk.....	xxx	r2,501	xxx	xxx
3533----	Oil-field machinery and tools, total.....	xxx	496,149	xxx	468,716
	Rotary oil and gas field drilling machinery and equipment.....	xxx	214,681	xxx	223,524
	Rotary drilling surface machinery and equipment:				
3533111	Blocks, crown and traveling.....	xxx	1,616	xxx	1,724
3533112	Draw works and accessories.....	165	14,904	283	15,968
3533114	Rotary tables.....	208	1,430	482	2,131
3533115	Elevators, spiders, slips, hooks, links and connectors....	xxx	4,385	xxx	6,181
3533116	Swivels and accessories.....	xxx	1,447	xxx	2,228
3533117	Well control equipment (blow-out preventers, etc.).....	xxx	10,852	xxx	8,966
3533119	Other rotary drilling surface machinery and equipment.....	xxx	11,768	xxx	16,261
	Rotary drilling subsurface equipment:				
3533141	Bits.....	(NA)	116,149	(NA)	129,844
3533142	Reamers.....	xxx	6,456	xxx	1,078
3533143	Coring equipment.....	xxx	4,658	xxx	6,296
3533144	Tool joints, subs, and connectors.....	xxx	17,913	xxx	16,852
3533145	Drill collars.....	10,325	9,169	11,740	8,533
3533147	Fishing and cutting tools.....	xxx	7,025	xxx	5,421
3533149	Other subsurface rotary drilling equipment (including Kelly joints).....	xxx	5,804	xxx	2,041
3533100	Rotary oil and gas field drilling machinery and equipment, nsk	xxx	1,105	xxx	xxx
	Other oil and gas field drilling machinery and equipment.....	xxx	50,698	xxx	56,873
	Cable tool drilling surface machinery and equipment:				
3533211	Drilling machines and accessories.....	xxx	658	xxx	1,372
3533215	Other cable tool surface drilling equipment (include rig irons, wheels, reels, beams, pitmans, etc.).....	xxx		xxx	1,762
	Cable tool drilling subsurface equipment:				
3533221	Drilling bits, jars, sockets.....	387	10,830	xxx	5,476
3533223	Fishing and specialty tools.....	xxx	573	xxx	2,282
3533225	Other cable tool subsurface equipment.....	xxx	244	xxx	461
	Cementing, floating, guiding, and shoe equipment:				
3533251	Guide shoes, float collars, and combination guide and float shoes.....	xxx	5,621	xxx	9,426
3533255	Other cementing equipment.....	xxx	18,873	xxx	25,840
3533261	Parts for oil and gas field drilling equipment, sold separately (except parts for portable drilling rigs).....	xxx	13,546	xxx	10,254
3533298	Other oil and gas field drilling equipment, except portable (specify kind).....	xxx	353	xxx	

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Oil-field machinery and tools—Continued				
	Oil and gas field production machinery and equipment.....	xxx	175,453	xxx	147,812
	Production machinery and equipment:				
	Flowing well equipment, surface and subsurface:				
3533311	Christmas tree assemblies.....	xxx	16,102	xxx	13,984
3533313	Casing and tubing heads and supports.....	xxx	12,522	xxx	3,764
3533315	Chokes, manifolds and other accessories.....	xxx		xxx	6,511
3533319	Rodless oil lifting machinery and equipment (other than pumps).....	xxx	13,926	xxx	2,366
	Rod lifting machinery and equipment, surface (including pumps when they are component of a complete assembly):				
3533353	Pumping units and accessories (include back crank equipment).....	11,962	39,432	17,890	40,745
3533355	Other surface rod lifting machinery and equipment.....	xxx	1,748	xxx	2,002
3533357	Rod lifting equipment, subsurface, except pumps (quantity represents number of sucker rods).....	2,379,520	21,365	2,722,565	22,351
	Other production machinery and equipment:				
3533361	Packers.....	xxx	9,895	xxx	6,849
3533365	Screens, tubing, catchers, etc.....	xxx	4,959	xxx	8,621
3533371	Oil and gas separating, metering, and treating equipment (quantity represents number of separators).....	1,877	11,472	xxx	8,234
3533381	Parts for oil and gas field machinery and tools, sold separately (including parts for portable drilling rigs but excluding parts for other drilling equipment).....	xxx	10,102	xxx	
3533398	Other oil and gas field machinery and tools, nsk.....	xxx	33,930	xxx	32,385
35334--	Other oil and gas field machinery and tools including water well drilling equipment and portable drilling rigs.....	xxx	40,715	xxx	40,507
	Portable drilling rigs, permanently mounted on trucks or trailers:				
	Oil and gas field:				
3533411	Cable tools.....	235	5,226	223	2,972
3533413	Rotary rigs.....	275	11,837	342	7,865
	Water well and blast hole:				
3533415	Cable tool.....	324	2,781	1,181	7,048
3533417	Rotary rigs.....	234	6,006	203	5,249
3533421	Derricks, oil and gas field, substructures, and accessories— regular and portable.....	81	2,190	495	8,607
3533431	Well surveying machinery and equipment.....	xxx	1,917	xxx	8,766
3533400	Other oil and gas field production machinery and equipment.....	xxx	10,758	xxx	xxx
3533000	Oil-field machinery and tools, nsk.....	xxx	14,602	xxx	...
3534---	Elevators and moving stairways, total.....	xxx	165,277	xxx	128,102
	Elevators and moving stairways:				
	Elevators (except farm and portable):				
3534111	Electric passenger (except residence lifts).....	2,985	61,534	5,710	46,543
3534012	Hydraulic passenger.....	1,029	5,270	(11)	(11)
3534013	Electric freight.....	1,325	16,247	1,580	12,541
3534015	Hydraulic freight.....	2,203	7,105	3,729	9,045
3534031	Automobile lifts (service station and garage types).....	21,125	13,793	xxx	
3534051	Moving stairways and escalators.....	1,283	6,587	xxx	
3534098	Other nonfarm elevators (including sidewalk elevators, dumbwaiters, man lifts, hand-operated freight elevators, residence lifts, etc.) and parts and attachments for elevators and moving stairways (sold separately).....	xxx	45,971	xxx	1159,973
3534000	Elevators and moving stairways, nsk.....	xxx	8,770	xxx	xxx
Total shipments including interplant transfers (\$1,000)					
		1958		1954	
3535---	Conveyors and conveying equipment, total.....		333,877		294,643
35351--	Conveyors and conveying equipment (except hoists and farm elevators).....		247,994		224,947
3535111	Gravity conveyors (skate wheel and roller).....		20,129		22,129
3535131	Overhead trolley conveyor systems.....		19,486		16,072
3535141	Pneumatic tube systems (include foot-power units).....		12,720		5,601
3535151	Portable conveyors (except farm).....		8,633		6,683
3535161	Underground mine conveyors and conveying systems.....		11,066		3,095
	Other conveyors and conveying systems (includes specially engineered conveyor installations):				
3535171	Bulk material conveyors.....		117,720		
3535173	Package (unit) conveyors.....		47,730		171,367
3535100	Other conveyors.....		10,510		
3535211	Parts, attachments and accessories for conveyors and systems (sold separately).....		72,021		61,254
3535000	Conveyors and conveying equipment (except hoists), nsk.....		13,862		8,442

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3536---	Hoists, industrial cranes, and monorail systems, total.....	xxx	165,544	xxx	159,056
35361--	Hoists.....	xxx	59,401	xxx	55,068
3536112	Hand and electric chain hoists.....	134,877	17,589	157,715	12,673
3536114	Mine shaft and slope electric wire-rope hoists.....	53	1,325	30,055	16,044
3536116	Other electric wire-rope hoists.....	17,645	14,557		
3536137	Air hoists.....	5,015	5,590		
3536138	Other hoists.....	100,314	20,340	(NA)	20,951
35362--	Overhead traveling cranes and monorail systems.....	xxx	106,143	xxx	103,988
	Cranes (except construction power cranes):				
3536211	Electric overhead traveling.....	3,020	83,996	3,958	86,588
3536215	Hand power overhead traveling.....	805	1,027	1,773	3,315
3536251	Monorail systems (including parts and attachments).....	4,140	20,385	xxx	14,085
3536200	Overhead traveling cranes and monorail systems, nsk.....	xxx	735	xxx	...
3537---	Industrial trucks, tractors, total.....	xxx	276,674	xxx	254,822
	Industrial trucks, tractors, trailers, portable elevators and accessories:				
	Powered trucks and tractors:				
3537011	Trucks (operator walking).....	10,595	20,306	8,452	10,937
	Trucks (operator riding) and tractors				
	Electric (storage battery and gasoline-powered):				
3537021	Fork trucks.....	3,321	14,920	4,205	21,983
3537029	Other industrial trucks and tractors.....	xxx	3,393	797	3,606
	Gasoline:				
3537031	Fork trucks.....	16,386	95,312	17,287	74,102
3537033	Trucks (except fork).....	631	3,358	1,172	6,153
3537035	Tractors.....	3,221	12,810	2,863	4,526
3537041	All other trucks (operator riding) and tractors (including Diesel, compressed-air powered, etc.).....	(NA)	5,901	xxx	2,439
3537051	Portable elevators (stackers) excluding farm.....	2,870	3,771	4,775	3,630
3537081	Parts and attachments and miscellaneous equipment (sold separately).....	xxx	44,752	xxx	61,049
	Hand trucks and trailers (including dollies and platform trucks):				
3537061	Hand lift.....	(NA)	11,366	xxx	11,279
3537065	Other hand trucks and trailers (including two-wheel, four-wheel, dollies and platform trucks).....	xxx	30,395	xxx	30,927
3537071	Metal pallets and skids (excluding wood and metal combination).....	xxx	6,786	xxx	12,924
3537000	Industrial trucks and trailers, nsk.....	xxx	23,604	xxx	11,267

NA Not available.

<sup>1</sup>For these products, figures for 1958 were also collected on Census Annual Form MA-35D, Quarterly Form M-35D. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual or quarterly form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual or quarterly survey figures amounting generally to less than 2 percent at the industry level and not more than 10 percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting figures on the annual or quarterly survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual or quarterly survey will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

<sup>2</sup>Represents wheeled tractors designed primarily for operation on natural terrain, such as on highway or public-works construction projects or on strip mining operations, and of such size or weight as to be restricted by State laws or regulations from operating on public highways. Does not include "truck-type" wheel tractors.

<sup>3</sup>The horsepower ratings for these tractors are based on maximum corrected drawbar horsepower. Data for 1958 exclude those crawler tractors produced as components of complete tractor-shovel-loaders. In 1958 a total of 7,501 such tractor components were reported, of which 3,497 were rated at under 50 drawbar horsepower and 4,004 at 50 drawbar horsepower and over.

<sup>4</sup>Figures for portable pulverizers and grinders are included with those for stationary pulverizers and grinders (code 3532235).

<sup>5</sup>Figures for parts and attachments for mining machinery (code 3532375) are included with those for parts and attachments for construction machinery.

<sup>6</sup>Figures for all other mining machinery and equipment (code 3532371) are included with those for all other construction machinery and equipment.

<sup>7</sup>Included with "Other excavating and road construction machinery" (1958 code 3531983).

<sup>8</sup>Excludes front-end loaders shipped to producers of complete tractor-shovel loaders (integral units).

<sup>9</sup>1954 figures represent cable power control units.

<sup>10</sup>Represents selected types of construction machinery for which figures are collected on Census Annual Form MA-35D or Quarterly Form M-35D but for which separate figures could not be published. These products include scrapers, 2- and 4-wheel, under 7 cubic yard standard struck capacity; winches, (towing, logging and oil-field types) for mounting on tractors; cranes for mounting on tractors; wheel tractors (truck type), off highway type, 2- and 3-axle models; and portable drills, churn drill type, water well and blast hole.

<sup>11</sup>"Hydraulic passenger elevators" are included with "Other nonfarm elevators."



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

in thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million in the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Power shovels, draglines, and related equipment (3521):</u>	1958 <sup>1</sup>		<u>Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons (35218):</u>	1958 <sup>1</sup>		<u>Crushing, pulverizing, and screening plants, stationary (35222):</u>	1958 <sup>1</sup>	
United States, total.....	361,068		United States, total.....	383,090		United States, total.....	142,804	
Northeast.....	27,358		New England.....	5,646		East North Central.....	23,945	
Pennsylvania.....	26,267		Massachusetts.....	1,381		Ohio.....	3,833	
East North Central.....	266,573		Middle Atlantic.....	28,871		Wisconsin.....	14,743	
Ohio.....	76,931		New York.....	4,818		West North Central.....	18,961	
Indiana.....	26,348		New Jersey.....	12,504		Minnesota.....	3,171	
Illinois.....	22,358		Pennsylvania.....	11,549		Missouri.....	3,564	
Michigan.....	36,754		East North Central.....	217,818		South and West.....	7,074	
Wisconsin.....	103,682		Ohio.....	55,791		California.....	2,974	
West North Central.....	44,701		Indiana.....	7,925		<u>All other mining machinery and equipment (35223):</u>		
South.....	11,857		Illinois.....	95,589		United States, total.....	142,804	
Texas.....	1,434		Michigan.....	28,141		New England.....	9,021	
West.....	10,879		Wisconsin.....	30,372		Middle Atlantic.....	45,832	
Washington.....	5,834		West North Central.....	44,667		Pennsylvania.....	30,672	
California.....	2,800		Minnesota.....	16,420		North Central.....	58,871	
<u>Mixers, pavers, and related equipment (35216):</u>	Value of shipments		Iowa.....	21,886		Ohio.....	22,748	
United States, total:			Missouri.....	2,579		Illinois.....	13,335	
1958.....	101,908		South Atlantic.....	12,871		Michigan.....	9,237	
1957.....	103,510		East South Central.....	3,607		Iowa.....	3,857	
1956.....	109,144		Alabama.....	2,586		Missouri.....	1,869	
1955.....	95,780		West South Central.....	26,083		South Atlantic.....	7,872	
1954.....	70,967		Oklahoma.....	17,541		West Virginia.....	4,831	
1947.....	40,462		West.....	43,527		South Central.....	4,788	
Northeast.....	9,970		Washington.....	8,729		Texas.....	1,928	
New Jersey.....	4,490		California.....	17,855		Mountain.....	12,242	
Pennsylvania.....	3,754		<u>Underground mining machinery and equipment (35211):</u>	Value of shipments		Colorado.....	10,888	
North Central.....	72,822		United States, total:			Utah.....	1,354	
Ohio.....	16,240		1958.....	64,667		Pacific.....	4,178	
Indiana.....	5,405		1947.....	40,462		California.....	3,136	
Illinois.....	19,614		Northeast.....	25,067		<u>Rotary oil and gas field drilling machinery and equipment (35231):</u>		
Wisconsin.....	20,181		Pennsylvania.....	21,496		United States, total.....	214,681	
South.....	3,334		North Central.....	14,410		Middle Atlantic.....	3,796	
Mountain.....	1,776		Ohio.....	5,815		North Central.....	3,875	
Pacific.....	14,006		Illinois.....	4,734		South.....	166,394	
California.....	14,006		South Atlantic.....	4,788		Louisiana.....	2,188	
<u>Integral tractor-shovel loaders (35217):</u>	1958 <sup>1</sup>		West Virginia.....	3,747		Oklahoma.....	10,966	
United States, total.....	142,890		South Central.....	2,885		Texas.....	152,693	
North Central.....	128,258		West.....	17,517		West.....	40,616	
Illinois.....	88,314		Colorado.....	4,408		California.....	34,289	
<u>Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons (35218):</u>			<u>Crushing, pulverizing, and screening plants, stationary (35222):</u>	Value of shipments		<u>Other oil and gas field drilling machinery and equipment (35232):</u>		
United States, total.....	326,002		United States, total.....	70,311		United States, total.....	50,698	
Northeast.....	16,349		Northeast.....	20,331		Middle Atlantic.....	2,174	
Pennsylvania.....	7,558		New York.....	1,187		Pennsylvania.....	2,174	
North Central.....	278,414		Pennsylvania.....	14,450		South Atlantic.....	1,471	
Ohio.....	72,662		<u>Crushing, pulverizing, and screening plants, stationary (35222):</u>	1958 <sup>1</sup>		West Virginia.....	1,471	
Illinois.....	133,090		United States, total.....			West South Central.....	26,087	
Michigan.....	9,070		Northeast.....	20,331		Texas.....	19,707	
Wisconsin.....	16,953		New York.....	1,187		Pacific.....	20,331	
Minnesota.....	7,177		Pennsylvania.....	14,450		California.....	20,331	
Iowa.....	10,662							
Missouri.....	3,684							

See footnotes at end of table.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Oil and gas field production machinery and equipment (35333):</u>	1958 <sup>1</sup>		<u>Conveyors and conveying equipment (35351)--Continued</u>	1958 <sup>1</sup>	1954	Hoists (35361):	1958 <sup>1</sup>	
United States, total.....	175,453		West North Central.....	21,846	19,652	United States, total.....		59,401
Middle Atlantic.....	6,356		Minnesota.....	8,054	(2)	Northeast.....		19,119
Pennsylvania.....	6,356		Missouri.....	6,958	5,441	Pennsylvania.....		11,179
East North Central.....	9,851		South Atlantic.....	8,024	4,146	East North Central.....		23,850
Illinois.....	2,381		East South Central.....	11,999	8,635	Ohio.....		5,661
West North Central.....	10,928		Kentucky.....	4,899	(2)	Illinois.....		5,605
South.....	140,462		West South Central.....	5,314	4,123	Michigan.....		7,660
Louisiana.....	4,981		Texas.....	4,417	3,099	West North Central.....		4,368
Oklahoma.....	34,971		West.....	17,558	12,144	Iowa.....		1,713
Texas.....	98,067		California.....	14,925	10,914	South.....		5,372
West.....	7,856		<u>Parts, attachments, and accessories for conveyors and systems (35352):</u>	Value of shipments		West.....		6,692
California.....	5,244		United States, total:			California.....		2,575
			1958.....	72,021		<u>Overhead traveling cranes and monorail systems (35362):</u>	Value of shipments	
			1957.....	79,972		United States, total:		
			1956.....	78,429		1958.....		106,143
			1955.....	63,974		1957.....		149,406
			1954.....	61,524		1956.....		100,245
			1947.....	34,754		1955.....		67,987
<u>Conveyors and conveying equipment (35351):</u>				1958 <sup>1</sup>	1954	1954.....		103,988
United States, total:			New England.....	1,241	(3)	1952.....		126,274
1958.....	247,994		Middle Atlantic.....	14,134	13,232	1951.....		92,889
1957.....	335,344		New York.....	2,556	1,208	1950.....		59,559
1956.....	324,607		New Jersey.....	4,366	3,250	1947.....		37,242
1955.....	254,618		Pennsylvania.....	7,212	8,773		1958 <sup>1</sup>	1954
1954.....	233,389		East North Central.....	45,476	41,565	Northeast.....	4,912	6,477
1947.....	145,937		Ohio.....	9,222	13,802	Pennsylvania.....	1,075	1,820
			Illinois.....	15,184	9,546	North Central.....	87,687	80,224
			Michigan.....	5,914	4,552	Ohio.....	39,304	33,292
			West North Central.....	1,648	1,342	Illinois.....	11,271	(2)
			South.....	4,951	1,161	Michigan.....	14,516	15,685
			Texas.....	1,848	(2)	All other regions.....	13,544	15,523
			West.....	4,571	2,731	California.....	9,596	14,157
			California.....	3,140	2,258			

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 35314, Minnesota, Iowa, Tennessee, Louisiana, and Colorado; 35316, New York, Minnesota, Iowa, Texas, and Idaho; 35317, New York, Michigan, Wisconsin, Iowa, and Utah; 35318, Vermont, Massachusetts, New York, New Jersey, Indiana, Kansas, Oklahoma, Washington, and California; 35319, Maine, New Hampshire, Nebraska, Kansas, Delaware, Maryland, Georgia, Texas, and Utah; 35321, New Hampshire, Indiana, Iowa, Tennessee, Utah, and California; 35322, Maine, New Jersey, Illinois, Michigan, Iowa, Kansas, and West Virginia; 35323, Maine, New Hampshire, Massachusetts, New York, New Jersey, Wisconsin, Minnesota, and Virginia; 35331, Pennsylvania, Ohio, and Utah; 35332, Oklahoma; 35333, Ohio, Indiana, Minnesota, Missouri, Kansas, Mississippi, and New Mexico; 35351, Wisconsin, Iowa, South Dakota, Kansas, Virginia, West Virginia, Georgia, Tennessee, and Mississippi; 35352, Indiana, Wisconsin, Mississippi, and Colorado; 35361, New York, New Jersey, Wisconsin, Minnesota, Tennessee, Arkansas, Colorado, and Washington; 35362, New York, Wisconsin, Iowa, Texas, and Washington.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Materials	Unit of measure	1958					
			Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)	Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)
			Quantity	De-livered cost (\$1,000)		Quantity	De-livered cost (\$1,000)	
			INDUSTRY 3531—CONSTRUCTION MACHINERY			INDUSTRY 3532—MINING MACHINERY AND EQUIPMENT		
	Materials, parts, containers and supplies, total.....		xxx	948,778	xxx	xxx	134,093	xxx
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons	261,974	42,766	xxx	21,820	3,911	xxx
331212	Sheet and strip.....	do.	82,268	12,335	xxx	5,417	817	xxx
331213	Plates.....	do.	339,061	47,961	xxx	42,064	6,633	xxx
331215	Structural shapes.....	do.	99,847	14,612	xxx	26,963	4,175	xxx
331217	Wire and wire products.....	do.	6,404	2,639	xxx	342	140	xxx
331219	All other carbon steel mill shapes and forms.....	do.	68,894	16,278	xxx	11,501	3,276	xxx
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do.	36,540	8,057	xxx	6,773	2,220	xxx
331225	All other alloy steel mill shapes and forms.....	do.	28,262	7,144	xxx	13,983	6,718	xxx
331231	Stainless steel mill shapes and forms.....	do.	499	783	xxx	521	823	xxx
	Copper and copper-base alloy:							
335111	Bare wire for electrical conduction only.....	1,000 lbs.	342	223	xxx	459	334	xxx
363111	Insulated wire and cable.....	1,000 lbs. copper content..	1,959	1,426	xxx	445	803	xxx
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	1,000 lbs.	7,040	3,833	xxx	810	506	xxx
335257	Aluminum and aluminum-base alloy mill shapes and forms:							
	Sheet, plate, and foil.....	do.	785	425	xxx	xxx	xxx	xxx
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	do.	616	431	xxx	xxx	xxx	xxx
	Primary metals and scrap:							
331251	Pig iron.....	Short tons	20,858	1,357	xxx	5,124	387	xxx
941011	Iron and steel scrap (excluding home scrap).....	do.	54,222	2,263	xxx	8,722	427	xxx
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	do.	135,996	44,493	3,862	15,781	5,965	3,628
332311	Steel.....	do.	140,915	77,843	3,000	14,702	10,957	...
336121	Copper and copper-base alloy.....	1,000 lbs.	4,368	3,284	(D)	1,429	827	...
336111	Aluminum and aluminum-base alloy.....	do.	5,350	3,435	(D)	105	97	...
339111	Iron and steel forgings.....	Short tons	161,771	66,649	3,955	7,903	4,435	...
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number....	23,551	538	(D)	(D)	(D)	...
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.	17,510	7,634	4,590	4,608	3,681	...
351921	Diesel and semi-Diesel engines.....	do.	27,994	56,684	16,330	275	869	...
351911	Gasoline and other carburetor engines.....	do.	40,935	14,498	8,326	744	191	...
359311	Ball and roller bearings.....	do.	...	17,616	...	...	1,379	...
361121	Tires, pneumatic.....	Number....	230,516	24,157	...	3,048	180	...
361161	Inner tubes.....	do.	73,511	438	...	(D)	(D)	...
973099	All other materials and components, parts, containers, and supplies consumed.....		...	421,927	...	...	66,185	...
973000	Materials, parts, containers and supplies, not specified by kind.....		xxx	147,049	xxx	xxx	18,157	xxx
			1958			1954		
			Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)	Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)
			Quantity	De-livered cost (\$1,000)		Quantity	De-livered cost (\$1,000)	
			INDUSTRY 3533—OIL FIELD MACHINES AND EQUIPMENT					
	Materials, parts, containers and supplies, total.....		xxx	194,057	xxx	xxx	185,124	xxx
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons	41,104	7,266	xxx	51,788	7,530	xxx
331212	Sheet and strip.....	do.	5,107	871	xxx	16,843	2,133	xxx
331213	Plates.....	do.	31,593	4,778	xxx	27,828	3,468	xxx
331215	Structural shapes.....	do.	34,472	6,168	xxx	54,548	7,034	xxx
331217	Wire and wire products.....	do.	1,849	925	xxx	1,726	702	xxx
331219	All other carbon steel mill shapes and forms.....	do.	36,531	7,297	xxx	38,461	7,924	xxx
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do.	77,992	19,722	xxx	114,035	24,895	xxx
331225	All other alloy steel mill shapes and forms.....	do.	18,939	6,382	xxx	41,299	13,180	xxx

See footnotes at end of table.

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Materials	Unit of measure	1958			1954		
			Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)	Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)
			Quantity	De-livered cost (\$1,000)		Quantity	De-livered cost (\$1,000)	
INDUSTRY 3533—OIL FIELD MACHINES AND EQUIPMENT—Continued								
331231	Mill shapes and forms (except castings)—Continued	Short tons	1,466	1,660	xxx	1,770	1,767	xxx
335111	Stainless steel mill shapes and forms.....	1,000 lbs.	89	27	xxx	(NA)	1,265	xxx
363111	Copper and copper-base alloy:	1,000 lbs.						
	Bare wire for electrical conduction only.....	copper content..						
335119	Insulated wire and cable.....	1,000 lbs.	1,393	763	xxx	(NA)		xxx
	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	1,000 lbs.						
	Primary metals and scrap:							
331251	Pig iron.....	Short tons	5,692	363	xxx	8,640	504	xxx
941011	Iron and steel scrap (excluding home scrap).....	...do....	18,662	817	xxx	27,144	1,052	xxx
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	...do....	32,235	7,703	4,031	33,765	7,641	8,184
332311	Steel.....	...do....	22,467	11,803	1,273	22,716	12,779	3,792
336121	Copper and copper-base alloy.....	1,000 lbs.	1,377	910	...	1,860	1,235	...
339111	Iron and steel forgings.....	Short tons	21,899	12,101	(D)	(NA)	(NA)	(NA)
351921	Diesel and semi-Diesel engines.....	Number	695	2,460	...	470	1,977	xxx
351911	Gasoline and other carburetor engines.....	...do....	1,479	1,967	(D)	2,854	2,639	xxx
359311	Ball and roller bearings.....	.....	...	3,221	...	...	3,749	...
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	...	93,504	...	...	83,650	...
973000	Materials, not specified by kind.....	.....	xxx	3,349	xxx	xxx	xxx	xxx
			1958		1954		1958	
			Consumption of materials received from other establishments		Consumption of materials received from other establishments		Consumption of materials received from other establishments	
			Quan- tity	De- livered cost (\$1,000)	Quan- tity	De- livered cost (\$1,000)	Consump- tion of materials produced in this estab- lishment (Quantity)	Quan- tity
			De- livered cost (\$1,000)		De- livered cost (\$1,000)		De- livered cost (\$1,000)	
			INDUSTRY 3534—ELEVATORS AND MOVING STAIRWAYS				INDUSTRY 3535—CONVEYORS	
	Materials, parts, containers and supplies, total.....	.....	xxx	62,717	xxx	54,854	xxx	141,103
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons	9,088	1,733	11,225	1,943	xxx	5,314
331212	Sheet and strip.....	...do....	11,671	2,027	10,944	1,825	xxx	6,772
331213	Plates.....	...do....	6,983	1,028	8,253	1,207	xxx	4,716
331215	Structural shapes.....	...do....	16,449	3,756	14,255	1,859	xxx	6,487
331217	Wire and wire products.....	...do....	1,107	689	889	446	xxx	658
331219	All other carbon steel mill shapes and forms.....	...do....	7,014	1,455	17,146	2,842	xxx	2,862
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	...do....	660	335	{	736	226	xxx
331225	All other alloy steel mill shapes and forms.....	...do....						
331231	Stainless steel mill shapes and forms.....	...do....	395	906	394	465	xxx	2,177
	Copper and copper-base alloy:							
363111	Insulated wire and cable.....	1,000 lbs.	2,109	1,574	{	2,048	1,986	xxx
	Bare wire for electric conduction only.....	copper content..						
335111	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	1,000 lbs.	585	398	1,473	1,115	xxx	139
335119	Aluminum and aluminum-base alloy mill shapes and forms:	1,000 lbs.						
335257	Sheet, plate and foil.....	...do....	444	356	{	...	...	xxx
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	...do....						
	Primary metals and scrap:							
331251	Pig iron.....	Short tons	1,965	134	3,149	184	xxx	3,650
941011	Iron and steel scrap (excluding home scrap).....	...do....	(D)	(D)	3,452	137	xxx	3,461
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	...do....	7,508	2,402	7,227	2,083	6,126	5,229
332311	Steel.....	...do....	1,610	1,275	2,058	925	...	1,820
336121	Copper and copper-base alloy.....	1,000 lbs.	214	171	670	481	370	211
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subynchronous (under 1 horsepower).....	Number...	6,988	375	11,000	730	...	1,219
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	...do....	7,076	3,462	4,000	1,618	4,000	3,436
351911	Gasoline and other carburetor engines.....	...do....	xxx	xxx	xxx	xxx	xxx	121
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	...	34,525	...	34,506	...	82,826
973000	Materials, etc., not specified by kind.....	.....	xxx	16,116	xxx	xxx	xxx	15,081

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Materials	Unit of measure	1958			1958		1954	
			Consumption of materials received from other establishments		Consumption of materials produced in this establishment (Quantity)	Quantity	De-livered cost (\$1,000)	Quantity	De-livered cost (\$1,000)
			Quantity	De-livered cost (\$1,000)					
			INDUSTRY 3536—HOISTS, CRANES AND MONORAILS			INDUSTRY 3537—INDUSTRIAL TRUCKS AND TRACTORS			
	Materials, parts, containers and supplies, totals.....		xxx	78,611	xxx	xxx	119,560	xxx	116,279
	Mill shapes and forms (except castings):								
	Carbon steel:								
331211	Bars and bar shapes.....	Short tons	<sup>r</sup> 13,892	<sup>r</sup> 2,426	xxx	22,651	3,652	33,082	4,229
331212	Sheet and strip.....	do.	<sup>r</sup> 3,799	<sup>r</sup> 589	xxx	15,076	2,316	28,990	3,331
331213	Plates.....	do.	<sup>r</sup> 40,004	<sup>r</sup> 5,708	xxx	28,645	4,078	50,619	5,623
331215	Structural shapes.....	do.	<sup>r</sup> 27,313	<sup>r</sup> 4,202	xxx	12,934	2,163	27,077	3,295
331217	Wire and wire products.....	do.	<sup>r</sup> 853	<sup>r</sup> 538	xxx	4,071	723	7,341	1,147
331219	All other carbon steel mill shapes and forms.....	do.	5,442	1,186	xxx	3,531	978	14,518	2,618
	Alloy steel (except stainless):								
331221	Bars and bar shapes.....	do.	<sup>r</sup> 882	<sup>r</sup> 230	xxx	1,369	559	5,571	1,162
331225	All other alloy steel mill shapes and forms.....	do.	1,069	199	xxx	927	294	845	225
331231	Stainless steel mill shapes and forms.....	do.	xxx	xxx	xxx	154	185	78	96
	Copper and copper-base alloy:								
363111	Insulated wire and cable.....	1,000 lbs. copper content..	<sup>r</sup> 816	<sup>r</sup> 728	xxx	223	155	552	349
335111	Bare wire for electrical conduction only.....	1,000 lbs.	<sup>r</sup> 107	<sup>r</sup> 70	xxx				460
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar mechanical wire, etc.)...	1,000 lbs.	<sup>r</sup> 108	<sup>r</sup> 90	xxx	128	95		
	Aluminum and aluminum-base alloy mill shapes and forms:								
335257	Sheet, plate and foil.....	do.	107	82	xxx	451	475	...	...
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.				536	431	...	...
	Primary metals and scrap:								
331251	Pig iron.....	Short tons	xxx	xxx	xxx	2,044	123	2,465	134
941011	Iron and steel scrap (exclude home scrap).....	do.	xxx	xxx	xxx	1,163	49	2,812	100
	Castings (rough and semifinished, received from foundry):								
332011	Iron (gray and malleable).....	do.	<sup>r</sup> 10,881	<sup>r</sup> 4,203	297	224,060	5,578	31,842	5,899
332311	Steel.....	do.	<sup>r</sup> 5,202	<sup>r</sup> 3,303	350	5,855	3,422	9,064	4,436
336121	Copper and copper-base alloy.....	1,000 lbs.	<sup>r</sup> 822	<sup>r</sup> 472	(D)	359	348	359	240
336111	Aluminum and aluminum-base alloy.....	do.	331	423	(D)	xxx	xxx	xxx	xxx
339111	Iron and steel forgings.....	Short tons	555	405	(D)	xxx	xxx	xxx	xxx
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number....	<sup>r</sup> 15,687	<sup>r</sup> 699	(D)	8,790	313	13,000	651
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.	<sup>r</sup> 11,719	<sup>r</sup> 4,170	(D)	7,542	911	6,000	737
351921	Diesel and semi-Diesel engines.....	do.	28	160	...	195	249	290	285
351911	Gasoline and other carburetor engines.....	do.	406	221	...	18,422	6,469	25,921	7,312
359311	Ball and roller bearings.....	do.	...	245	xxx	xxx	xxx	xxx	xxx
369111	Storage batteries.....	Number....	xxx	xxx	xxx	18,857	2,235	21,616	2,823
970099	All other materials and components, parts, containers and supplies consumed.....		...	<sup>r</sup> 46,206	...	...	72,501	...	71,295
973000	Materials, etc., nsk.....		xxx	<sup>r</sup> 2,056	xxx	xxx	<sup>1</sup> 11,258	xxx	xxx

D Withheld to avoid disclosing of figures for individual companies.

NA Not available. <sup>r</sup>Revised.<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."<sup>2</sup>In addition, 1,805 short tons of iron castings were produced and consumed at the same establishment.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See *Introduction* for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3531	CONSTRUCTION MACHINERY (entire industry)	579	95,304	496,751	66,510	124,622	310,252	1,022,801	1,033,605	2,107,352	44,810
	Establishments with:										
	90% or more specialization.....	434	55,234	288,343	38,104	72,933	180,785	547,367	707,134	1,290,757	27,636
	75-89% specialization.....	44	19,742	97,649	15,128	26,100	66,142	305,729	155,776	465,407	10,033
35311	Contractors' off-highway wheel tractors, except parts and attachments (primary product class of estab.).....	13	2,297	12,042	1,660	3,489	8,098	32,949	36,192	71,834	1,950
35312	Tracklaying type tractors, except parts and attachments (primary product class of estab.).....	9	20,013	98,073	15,286	24,941	66,162	310,863	215,987	527,108	11,909
35313	Parts and attachments for track-laying and contractors' off-highway wheel tractors (primary product class of estab.).....	18	5,709	28,233	3,816	7,395	18,059	63,293	89,536	164,597	763
35314	Power cranes (including locomotive, full circle, revolving with booms) draglines, shovels, and parts (primary product class of estab.)..	65	19,711	106,782	13,423	25,859	66,359	159,779	186,091	367,311	5,597
	Establishments with:										
	90% or more specialization....	44	12,876	67,622	9,475	18,431	46,869	104,770	135,264	256,987	3,170
35316	Mixers, pavers, and related equipment, excluding parts (primary product class of estab.)..	69	7,347	40,356	5,073	10,391	24,716	68,086	60,160	131,617	2,435
	Establishments with:										
	90% or more specialization....	26	940	4,985	678	1,382	3,328	8,054	9,544	18,500	839
	75-89% specialization.....	11	956	4,919	699	1,415	3,105	8,992	9,344	18,438	(1)
35317	Integral tractor-shovel loaders (wheel and tracklaying types) excluding parts (primary product class of estab.).....	6	3,126	17,999	2,038	3,953	10,667	38,175	67,656	107,278	1,736
35318	Scrapers, graders, rollers and off-highway trucks, trailers, and wagons, excluding parts (primary product class of estab.).....	82	15,221	75,397	10,256	18,937	45,089	155,327	186,745	347,000	8,086
	Establishments with:										
	90% or more specialization....	39	2,065	10,791	1,493	2,993	6,613	19,867	37,386	58,719	1,778
	75-89% specialization.....	11	5,127	24,127	3,669	6,869	16,273	62,151	49,328	115,359	1,745
35319	Other construction machinery and equipment, including other construction machinery parts (primary product class of estab.).....	185	20,280	110,000	13,713	27,195	65,214	180,487	174,374	360,147	11,148
	Establishments with:										
	90% or more specialization....	109	3,376	18,735	2,284	4,577	10,695	36,911	32,260	64,943	5,700
	75-89% specialization.....	21	2,576	13,869	1,711	3,502	7,972	16,169	26,634	45,315	968
3532	MINING MACHINERY AND EQUIPMENT (entire industry).....	173	17,808	96,966	11,661	22,578	56,423	165,831	167,142	342,035	6,507
	Establishments with:										
	90% or more specialization.....	118	4,990	27,935	3,328	6,423	15,784	56,498	58,660	116,501	1,917
	75-89% specialization.....	21	2,545	13,004	1,892	3,707	8,791	24,234	22,611	47,511	841
35321	Underground mining machinery and equipment (primary product class of estab.).....	60	4,486	23,341	2,882	5,427	13,762	42,519	35,981	77,177	1,640
	Establishments with:										
	90% or more specialization....	34	379	1,778	277	461	1,103	3,209	2,908	6,053	(1)
	75-89% specialization.....	4	108	798	70	140	325	1,359	906	2,246	(1)
35322	Crushing, pulverizing, and screening plants, stationary (primary product class of estab.).....	31	3,736	21,940	2,572	5,455	13,039	33,664	44,756	82,397	1,025
	Establishments with:										
	90% or more specialization....	11	765	4,339	504	1,014	2,335	9,238	9,755	19,312	(1)
	75-89% specialization.....	6	657	3,620	525	1,057	2,778	5,547	9,487	14,843	(1)
35323	All other mining machinery and equipment (primary product class of estab.).....	82	9,586	51,685	6,207	11,696	29,622	89,648	86,405	182,461	3,842
	Establishments with:										
	90% or more specialization....	57	1,822	11,081	1,286	2,591	6,290	21,442	20,553	42,911	883
	75-89% specialization.....	7	334	2,013	241	480	1,282	3,320	3,458	7,144	(1)

See footnotes at end of table.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3531	OIL FIELD MACHINES, AND EQUIPMENT (entire industry).....	389	31,878	174,692	20,724	41,215	101,916	336,788	241,854	585,268	18,341
	Establishments with:										
	90% or more specialization.....	329	23,761	131,041	15,512	30,104	76,888	269,197	179,897	457,152	10,123
	75-89% specialization.....	22	3,340	17,504	2,131	4,166	9,848	28,451	29,235	56,870	4,649
35311	Rotary oil and gas field drilling machinery and equipment (primary product class of estab.).....	68	12,435	70,718	7,778	15,610	40,882	151,481	85,211	244,913	4,914
	Establishments with:										
	90% or more specialization.....	48	9,771	56,783	6,245	12,304	33,028	130,096	54,364	188,388	4,402
35312	Other oil and gas field drilling machinery and equipment (primary product class of estab.).....	22	3,100	17,932	1,972	3,706	9,467	41,046	15,399	55,264	5,606
	Establishments with:										
	90% or more specialization...	13	1,036	6,096	757	1,394	3,355	12,314	5,036	17,070	(D)
	75-89% specialization.....	3	123	521	91	184	350	610	390	1,018	(D)
35333	Oil and gas field production machinery and equipment (except pumps) (primary product class of estab.).....	87	12,912	67,933	8,796	16,857	41,232	115,053	108,840	223,993	6,444
	Establishments with:										
	90% or more specialization...	60	5,264	27,573	3,467	6,830	16,018	51,122	50,121	103,865	1,816
35334	Other oil and gas field machinery and tools (except pumps) including water wells (primary product class of estab.).....	106	2,404	12,497	1,394	2,658	6,465	19,459	23,826	42,704	828
	Establishments with:										
	90% or more specialization...	86	1,617	8,734	865	1,659	4,260	13,520	17,040	30,486	700
	75-89% specialization.....	7	194	983	166	286	769	2,072	1,306	2,572	(D)
3535	CONVEYORS (entire industry).....	420	20,789	119,431	12,698	25,584	62,578	192,892	186,979	385,714	7,197
	Establishments with:										
	90% or more specialization.....	272	9,760	57,318	6,376	12,848	32,187	94,559	90,230	187,702	3,746
	75-89% specialization.....	34	2,604	15,210	1,381	2,861	6,855	27,964	21,915	50,220	682
35351	Conveyors and conveying equipment (except hoists and farm elevators) (primary product class of estab.).....	162	16,797	98,538	10,080	20,657	50,428	159,374	152,174	316,708	4,945
	Establishments with:										
	90% or more specialization...	77	4,516	26,340	2,852	5,967	13,880	43,939	38,132	84,378	1,722
	75-89% specialization.....	37	2,895	17,691	1,739	3,430	9,126	27,947	26,565	54,346	738
35352	Parts, attachments, and accessories for conveyors and systems (sold separately) (primary product class of estab.).....	132	2,688	14,339	1,668	3,157	7,823	23,271	22,727	46,794	1,658
	Establishments with:										
	90% or more specialization...	94	692	3,521	525	953	2,511	6,735	6,321	13,108	1,031
	75-89% specialization.....	11	199	919	135	285	576	1,547	1,309	2,829	( <sup>1</sup> )
3536	HOISTS, CRANES, AND MONORAILS (entire industry).....	81	9,520	53,566	6,555	12,988	32,840	92,759	85,484	184,722	5,056
	Establishments with:										
	90% or more specialization.....	46	3,800	21,844	2,552	4,963	12,829	39,856	37,673	81,177	2,480
	75-89% specialization.....	11	2,253	12,121	1,583	3,172	8,088	22,823	18,903	41,899	1,961
35361	Hoists (primary product class of estab.).....	42	2,521	13,112	1,700	3,375	8,003	24,362	18,509	44,372	819
	Establishments with:										
	90% or more specialization...	21	989	5,517	659	1,306	3,330	10,662	6,934	17,578	643
	75-89% specialization.....	7	369	1,800	239	452	1,042	3,398	2,104	5,856	( <sup>1</sup> )
35362	Overhead traveling cranes and monorail systems (primary product class of estab.).....	39	6,999	40,454	4,855	9,613	24,837	68,397	66,975	140,350	4,237
	Establishments with:										
	90% or more specialization...	17	2,342	13,495	1,596	3,084	7,999	25,290	25,825	54,164	1,727
	75-89% specialization.....	7	1,222	7,356	873	1,755	4,643	12,321	11,874	24,329	(D)

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3531—CONSTRUCTION MACHINERY AND EQUIPMENT								
Ferrous foundry.....	18	...	3	15	2,651	...	38	2,613
Nonferrous foundry (except die casting).....	8	2	6	...	67	(D)	(D)	...
Forging.....	37	20	14	3	361	42	148	171
Heat treating and annealing.....	68	39	22	7	891	69	192	630
Automatic screw machine department.....	23	13	6	4	310	25	48	237
Machine shop.....	243	40	72	131	17,775	93	772	16,910
Tool and die shop.....	106	39	47	20	2,104	89	469	1,546
Foundry pattern shop.....	33	21	7	5	655	49	61	545
Plate or structural fabrication.....	201	22	51	128	12,788	56	525	12,207
Stamping, blanking, and forming.....	94	44	28	22	2,007	107	280	1,620
Painting, lacquering, and enameling.....	205	143	49	13	1,291	293	451	547
INDUSTRY 3532—MINING MACHINERY AND EQUIPMENT								
Ferrous foundry.....	13	...	2	11	751	...	(D)	(D)
Nonferrous foundry (except die casting).....	4	2	2	...	28	(D)	(D)	...
Forging.....	19	10	9	...	94	26	68	...
Heat treating and annealing.....	32	24	5	3	179	42	33	104
Automatic screw machine department.....	10	6	3	1	130	9	(D)	(D)
Machine shop.....	73	14	21	38	3,638	28	243	3,367
Tool and die shop.....	14	2	7	5	297	(D)	(D)	234
Plate or structural fabrication.....	49	10	10	29	2,257	19	86	2,152
Stamping, blanking, and forming.....	11	8	2	1	66	18	(D)	(D)
Painting, lacquering, and enameling.....	38	33	5	...	96	57	39	...
INDUSTRY 3533—OIL FIELD MACHINERY AND EQUIPMENT								
Ferrous foundry.....	7	...	1	6	451	...	(D)	(D)
Nonferrous foundry (except die casting).....	2	2	...	...	(D)	(D)	...	...
Forging.....	28	10	13	5	355	33	119	203
Heat treating and annealing.....	64	44	14	6	467	88	119	260
Automatic screw machine department.....	17	5	9	3	146	10	69	67
Machine shop.....	167	13	66	88	8,849	33	739	8,077
Tool and die shop.....	48	19	22	7	629	48	222	359
Plate or structural fabrication.....	73	24	24	25	1,609	63	270	1,276
Stamping, blanking, and forming.....	18	8	8	2	145	21	(D)	(D)
Painting, lacquering, and enameling.....	84	74	8	2	246	132	(D)	(D)
INDUSTRY 3534—ELEVATORS AND MOVING STAIRWAYS								
Ferrous foundry.....	2	1	1	...	16	(D)	(D)	...
Nonferrous foundry (except die casting).....	1	...	1	...	(D)	(D)	(D)	...
Forging.....	2	2	...	...	(D)	(D)	...	...
Heat treating and annealing.....	3	3	...	...	(D)	(D)	...	...
Automatic screw machine department.....	4	2	2	...	17	(D)	(D)	...
Machine shop.....	65	27	25	13	1,041	65	238	738
Tool and die shop.....	15	10	3	2	262	14	(D)	(D)
Foundry pattern shop.....	4	4	...	...	(D)	(D)	...	...
Plate or structural fabrication.....	45	23	16	6	638	63	172	403
Stamping, blanking, and forming.....	18	9	8	1	291	21	(D)	(D)
Painting, lacquering, and enameling.....	40	33	6	1	303	54	(D)	(D)
INDUSTRY 3535—CONVEYORS								
Ferrous foundry.....	8	...	4	4	360	...	r 37	r 323
Nonferrous foundry (except die casting).....	3	3	...	...	7	7	...	...
Forging.....	5	3	2	...	20	(D)	(D)	...
Heat treating and annealing.....	18	16	2	...	52	(D)	(D)	...
Automatic screw machine department.....	11	7	4	...	61	14	47	...
Machine shop.....	119	39	52	28	1,926	92	458	1,376
Tool and die shop.....	24	15	7	2	161	27	(D)	(D)
Foundry pattern shop.....	9	5	3	1	56	7	(D)	(D)
Plate or structural fabrication.....	110	20	40	50	3,574	55	390	3,129
Stamping, blanking, and forming.....	51	24	16	11	675	57	163	455
Painting, lacquering, and enameling.....	87	77	10	...	221	143	78	...
INDUSTRY 3536—HOISTS, INDUSTRIAL CRANES, AND MONORAILS								
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)
Nonferrous foundry (except die casting).....	...	...	...	...	...	...	...	...
Forging.....	7	3	4	...	40	4	36	...
Heat treating and annealing.....	11	9	2	...	25	(D)	(D)	...
Automatic screw machine department.....	7	6	1	...	18	(D)	(D)	...
Machine shop.....	54	17	15	22	1,557	37	158	1,362
Tool and die shop.....	17	10	7	...	94	22	72	...
Foundry pattern shop.....	10	6	4	...	45	13	32	...
Plate or structural fabrication.....	55	10	27	18	1,402	26	232	1,144
Stamping, blanking, and forming.....	13	9	4	...	46	19	27	...
Painting, lacquering, and enameling.....	55	49	6	...	139	91	48	...

See footnotes at end of table.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3537—INDUSTRIAL TRUCKS AND TRACTORS							
Ferrous foundry.....	6	...	3	3	123	...	45	78
Nonferrous foundry (except die casting).....	1	1	...	...	(D)	(D)	...	...
Forging.....	6	3	3	...	34	6	28	...
Heat treating and annealing.....	15	12	2	1	64	23	(D)	(D)
Automatic screw machine department.....	9	7	1	1	230	16	(D)	(D)
Machine shop.....	72	22	28	22	2,047	51	262	1,734
Tool and die shop.....	33	20	9	4	449	41	90	318
Foundry pattern shop.....	3	3	...	...	4	4	...	...
Plate or structural fabrication.....	62	11	30	21	1,168	30	285	853
Stamping, blanking, and forming.....	44	25	14	5	761	56	111	594
Painting, lacquering, and enameling.....	75	65	7	3	819	122	51	646

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3531	3532	3533	3534	3535	3536	3537
Total number of establishments in the industry.....	580	173	389	144	420	81	262
Number of establishments completing the metalworking operations inquiry including establishments that reported none.....	529	154	359	124	376	73	234
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	85-90	90-95	85-90	90-95	85-90	90-95

D Withheld to avoid disclosing figures for individual companies.

R Revised.





# Metalworking Machinery and Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3541—Machine Tools, Metal Cutting Types
- 3542—Machine Tools, Metal Forming Types
- 3544—Special Dies and Tools, Die Sets, Jigs and Fixtures
- 3545—Machine Tool Accessories and Measuring Devices
- 3548—Metalworking Machinery, Except Machine Tools

These five industries include plants primarily engaged in the production of machines, tools, and equipment for use principally in fabricating metal products. The machinery and equipment included in these industries encompass the entire range of metalworking processes utilizing cutting and forming operations. Plants in Industries 3541, 3542, and 3548, produce complete machines such as lathes, drilling machines, grinding and polishing machines, presses, die-casting machines, and rolling-mill equipment; plants in Industries 3544 and 3545 manufacture equipment and tools for use with those machines, such as dies, jigs, fixtures, cutting tools, work holding devices, industrial molds, and precision measuring instruments.

As a group, industries included in this report account for 78 percent of the total value of all metalworking machinery produced for sale or for transfer to other plants of the same company. The extent to which each of the individual industries specializes in the output of products defined in the industry (primary products) is measured by the primary product specialization ratio (see table 5A). The individual industry specialization ratios vary from a high of 93 percent for Industry 3544 to a low of 82 percent for Industry 3542. However, the specialization ratio for the five industries collectively is 94 percent.

As a means of providing for consistent reporting of machinery produced on a subcontract basis, machine tool and metalworking machinery manufacturers were instructed to include in their report all machines produced for them by others on a subcontract basis. Conversely, the plants producing such machines were instructed to exclude such products from their shipments reports and to show all receipts for subcontract work as "receipts for work done for others on their own materials."

## 3541—Machine Tools, Metal Cutting Types

This industry comprises establishments primarily engaged in manufacturing power-driven machines, not supported in the hands of an operator when in use, that shape metal by cutting away chips; the rebuilding of such machine tools, and the manufacture of replacement parts for them. Metalworking, or primarily metalworking, machine tools designed primarily for home workshops are also included. Establishments primarily engaged in the manufacture of electric welding equipment are classified in Industry 3623; and portable power-driven hand tools,

gas welding and cutting equipment, and automotive maintenance equipment in Industry 3548. For a detailed list of products of Industry 3541, refer to table 6A, product codes 3541110 to 3541941.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Metal-Cutting Machine Tools Industry in 1958 totaled \$680 million. This included shipments of metal-cutting machine tools (primary products), valued at \$529 million, shipments of other products (secondary products) valued at \$93 million, and miscellaneous receipts of \$58 million.

This industry's shipments of metal-cutting machine tools (primary products) in 1958 represented 85 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 84 percent. Secondary products shipped by this industry in 1958 consisted mainly of small cutting tools for machine tools and metalworking machinery, \$17 million; and attachments and accessories for machine tools and metalworking machinery, \$17 million.

Where the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 23 percent of the total industry shipments are represented by plants specializing in lathes; 19 percent in milling machines; and 15 percent in grinding and polishing machines.

Industry 3541 shipments of metal-cutting machine tools (primary products) in 1958 represented 89 percent (coverage ratio) of these products valued at \$593 million shipped by all industries. In 1954, the coverage ratio was 92 percent. Other industries shipping metal-cutting machine tools (primary products) consisted mainly of Industry 3545, Machine Tool Accessories, \$26 million.

While machine tools are usually built for industrial purposes, some types of small size, light construction, and low price are designed primarily for the home workshop, the laboratory, the service shop, or the like. Light machine tools, usually of more precise construction than the home workshop type, are also used in industrial plants, either in batteries to accomplish the same purpose as one or two heavier machine tools, as accessory equipment in the company's machine shop, as "standby machines," or for special types of work. In some industries where a light machine tool more adequately serves the purpose at hand, this type of tool is part of the main production line. Home workshop tools may be used incidentally in industrial establishments, but this is the exception rather than the rule. Home workshop machine tools (other than power-driven hand tools) which were designed primarily for metalworking or for use on metal and wood are classified in Industry 3541. However, those that are designed primarily for woodworking are classified in Industry 3553, Woodworking Machinery.



## MANUFACTURES-INDUSTRY STATISTICS

The product detail shown in table 6A is essentially the same as that collected annually since 1946, and published in the Current Industrial Report Series MA35W, Machine Tools. The annual survey does not include data on machines designed primarily for home workshops, garages, service shops, etc., nor does it include figures for rebuilt machine tools.

#### 3542—Machine Tools, Metal Forming Types

This industry comprises establishments primarily engaged in manufacturing power driven machines, not supported in the hands of an operator while in use, for pressing, forging, hammering, extruding, shearing, bending or die casting metal into shape. This industry also includes rebuilding such machine tools and manufacturing repair parts for them. Establishments primarily engaged in the manufacture of electric welding equipment are classified in Industry 3623; portable power driven hand tools, gas welding and cutting equipment, and automotive maintenance equipment in Industry 3548. For a detailed list of products of Industry 3542, refer to table 6A, product codes 3542110 to 3542475.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

Establishments primarily engaged in manufacturing rolling-mill machinery; power driven hand tools, parts, and attachments; acetylene welding and cutting apparatus; drawing machines and draw benches; and machines for weaving wire and other wire fabricating, formerly included in this industry are now classified in Industry 3548, Metalworking Machinery, N.E.C.

Value of shipments and other receipts of the Metal-Forming Machine Tools Industry in 1958 totaled \$318 million. This included shipments of metal-forming machine tools (primary products), valued at \$230 million, shipments of other products (secondary products) valued at \$49 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$38 million.

This industry's shipments of metal-forming machine tools (primary products) in 1958 represented 82 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of special dies and tools, \$17 million; and rolling mill machinery and equipment, \$9 million.

Where the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 32 percent of the total industry shipments are represented by plants specializing in metalworking presses, and 23 percent in punching, shearing, bending, and forming machines.

Industry 3542 shipments of metal-forming machine tools (primary products) in 1958 represented 80 percent (coverage ratio) of these products valued at \$289 million shipped by all industries.

The product detail shown in table 6A is essentially the same as that collected annually by the Bureau of the Census each year since 1950 and published in the Current Industrial Report Series MA35W, Machine Tools. The annual survey does not include data on rebuilt machines.

#### 3544—Special Dies and Tools, Die Sets, Jigs, and Fixtures

This industry comprises establishments primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components, and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing metal molds for casting metals, for rubber working, plastic working, glass working and similar machinery are also included. For a detailed list of products of Industry 3544, refer to table 6A, product codes 3544112 to 3544263.

This industry comprises establishments commonly known as contract tool and die shops; also included are captive tool and die shops of metal-products producers, where such shops were separately operated and separate reports were filed. However, the total value of shipments excludes the captive production of tool and die departments making these products for the exclusive use of the producing establishment.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in 1954 Census, is shown in table 1A.

Establishments primarily engaged in manufacturing industrial molds, formerly included in old S.I.C. Industry 3594, Patterns and Molds, are now classified in Industry 3544. Establishments primarily manufacturing industrial Patterns are now classified in new Industry 3565.

Value of shipments and other receipts of the Special Dies and Tools Industry in 1958 totaled \$1,061 million. This included shipments of special dies and tools (primary products), valued at \$906 million, shipments of other products (secondary products) valued at \$64 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$90 million.

This industry's shipments of special dies and tools (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of special industry machinery, \$6 million; and metal-forming machine tools, \$5 million.

Where the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 83 percent of the total industry shipments are represented by plants specializing in special dies and tools, and 15 percent in industrial molds.



## METALWORKING MACHINERY AND EQUIPMENT

Industry 3544 shipments of special dies and tools (primary products) in 1958 represented 68 percent (coverage ratio) of these products valued at \$1,332 million shipped by all industries. Other industries shipping special dies and tools (primary products) consisted mainly of Industry 3461, Metal Stampings, \$58 million; Industry 3542, Metal-Forming Machine Tools, \$17 million; and Industry 3545, Machine Tool Accessories, \$15 million.

#### 3545—Machine Tool Accessories and Measuring Devices

This industry comprises establishments primarily engaged in manufacturing cutting tools, precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery, n.e.c. Establishments primarily engaged in manufacturing hand tools, except power-driven, are classified in Group 342. For a detailed list of products of Industry 3545, refer to table 6A, product codes 3545112 to 3545351.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Machine Tool Accessories Industry in 1958 totaled \$511 million. This included shipments of machine tool accessories (primary products) valued at \$402 million, shipments of other products (secondary products) valued at \$73 million, and miscellaneous receipts of \$36 million.

This industry's shipments of machine tool accessories (primary products) in 1958 represented 85 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent. Secondary products shipped by this industry in 1958 consisted mainly of metal-cutting machine tools, \$26 million; and special dies and tools, \$15 million.

Where the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 65 percent of the total industry shipments are represented by plants specializing in small cutting tools for machine tools and metalworking machinery, and 15 percent in precision measuring tools.

Industry 3545 shipments of machine tool accessories (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$470 million shipped by all industries. In 1954, the coverage ratio was 74 percent. Other industries shipping machine tool accessories (primary products) consisted mainly of Industry 3541, Metal-Cutting Machine Tools, \$38 million.

#### 3548—Metalworking Machinery, Except Machine Tools

This industry comprises establishments primarily engaged in manufacturing metalworking machinery such as rolling mill machinery and equipment, power-driven hand tools, welding equipment, wire fabricating machinery and equipment, and automotive maintenance machinery and equipment. Establishments primarily engaged in manufacturing machine tools, metal cutting types, are classified in Industry 3541, and those primarily engaged in manufacturing machine tools, metal forming types, in Industry 3542. For a detailed list of products of Industry 3548, refer to table 6A, product codes 3548115 to 3548545.

This is a new industry according to the 1957 edition of the Standard Industrial Classification Manual. The composition of the industry is shown in table 1A. This industry comprises establishments primarily engaged in manufacturing rolling-mill machinery; power-driven hand tools; acetylene welding and cutting apparatus; drawing machines and draw benches; and machines for weaving wire and other wire fabricating, all formerly included in Industry 3542, Metal-Forming Machine Tools; and automotive maintenance equipment, formerly included in Industry 3589, Service and Household Machines, N.E.C.

Value of shipments and other receipts of the Metalworking Machinery, N.E.C., Industry in 1958 totaled \$602 million. This included shipments of metalworking machinery, n.e.c. (primary products), valued at \$494 million, shipments of other products (secondary products) valued at \$48 million, and miscellaneous receipts of \$59 million.

This industry's shipments of metalworking machinery, n.e.c. (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of farm machinery and equipment, \$5 million; and metal-forming machine tools, \$5 million.

Where the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by the different product classes. The extent of this specialization is indicated in table 8. Approximately 45 percent of the total industry shipments are represented by plants specializing in rolling mill machinery and equipment, and 37 percent in power-driven hand tools.

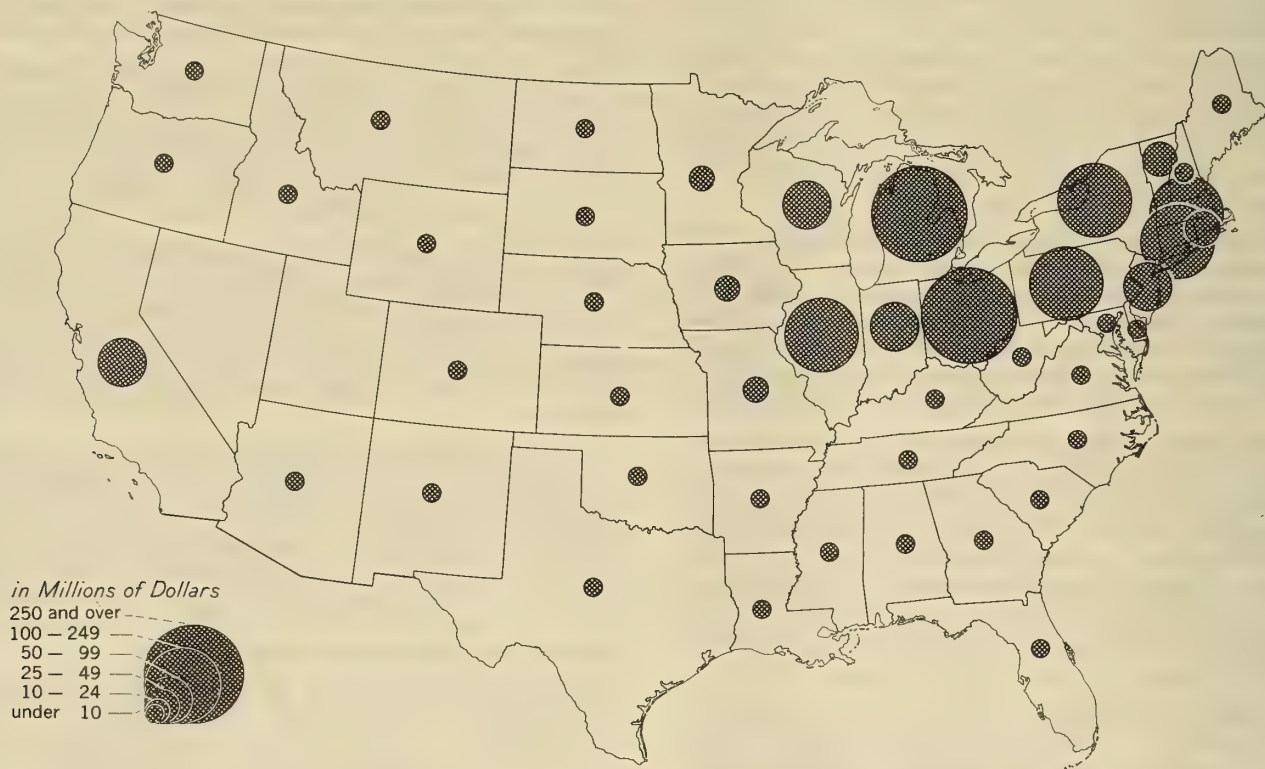
Industry 3548 shipments of metalworking machinery, n.e.c. (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$580 million shipped by all industries. Other industries shipping metalworking machinery, n.e.c. (primary products) consisted mainly of Industry 3542, Metal-Forming Machine Tools, \$9 million and Industry 3634, Electric Housewares and Fans, \$7 million.

## MANUFACTURES-INDUSTRY STATISTICS

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## METALWORKING MACHINERY AND EQUIPMENT: SIC 354

Value Added by Manufacture by State: 1958



Includes Industries 3541, 3542, 3544, 3545 and 3548. See Table 2.

Bureau of the Census M-58-D354



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3541 (old SIC 3541)	Metal-cutting machine tools:														
	1958.....	611	627	231	52,864	300,344	36,154	69,616	182,171	420,961	217,738	679,836	18,840	85	89
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	79,895	470,886	59,611	125,419	319,313	797,541	403,473	1,209,071	39,653	84	90
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	85,469	511,928	65,208	147,464	360,577	882,188	441,524	1,270,470	49,178	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	77,063	426,565	58,598	128,099	297,216	690,980	345,447	1,007,752	44,031	(NA)	(NA)
	1954.....	627	639	266	80,959	432,290	62,106	133,247	302,682	743,569	377,535	1,171,543	37,683	84	93
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	99,494	537,623	76,840	175,280	392,647	1,000,049	541,325	1,541,374	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	102,735	524,516	79,471	194,611	385,315	1,003,344	562,680	1,566,024	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	83,855	396,368	64,029	155,667	280,955	588,863	364,261	953,124	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,747	226,772	41,555	88,644	150,585	316,740	169,922	486,662	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	52,384	190,369	38,584	74,537	120,009	272,732	122,304	395,035	(NA)	(NA)	(NA)
	1947.....	312	315	209	70,001	233,997	54,435	113,432	165,003	343,198	150,655	493,853	(NA)	77	86
	1939.....	(NA)	224	(NA)	(NA)	(NA)	36,997	(NA)	62,867	155,941	65,326	221,267	(NA)	(NA)	(NA)
	1937.....	(NA)	205	(NA)	(NA)	(NA)	37,477	(NA)	62,610	143,224	59,515	202,739	(NA)	(NA)	(NA)
3542 (old SIC 3542)	Metal-forming machine tools: <sup>9</sup>														
	1958.....	279	291	147	22,502	132,368	15,572	30,905	82,192	176,021	130,143	317,657	11,723	82	80
3544 (old SIC 3544)	Special dies and tools: <sup>9</sup>														
	1958.....	5,715	5,745	994	83,308	536,588	68,916	139,877	415,241	780,090	275,030	1,060,566	43,242	93	68
3545 (old SIC 3545)	Machine tool accessories:														
	1958.....	865	905	297	41,521	226,949	29,304	56,299	143,663	348,580	143,142	511,456	15,277	85	85
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	52,203	293,874	39,369	81,691	199,832	472,602	199,651	650,032	25,185	87	74
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	48,344	265,326	37,181	79,194	183,429	472,352	175,101	630,558	20,354	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	45,202	230,769	34,837	72,429	158,733	403,554	150,220	544,410	17,121	(NA)	(NA)
	1954.....	1,007	1,022	307	44,877	212,665	34,467	69,871	146,854	341,399	133,154	486,764	16,598	87	74
3548	Metalworking machinery, nec: <sup>9</sup>														
	1958.....	349	362	143	33,328	183,307	24,384	46,915	120,444	332,397	241,230	602,015	16,634	91	85

NA Not available.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: **All employees:** for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value added (\$1,000)
3541	778,219
3545	351,607

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of materials (\$1,000)	
	1958	1954
3541	206,997	358,710
3545	131,122	125,096

Footnotes continued on next page.

Footnotes for Table 1-35C

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of shipments (\$1,000)	
	1958	1954
3541	666,024	1,146,932
3545	496,274	496,704

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the 1958 data for this industry are not comparable with those for earlier years. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Number of establishments		Number of employees	Adjusted value added by manufacture	Number of establishments		Number of employees	Adjusted value added by manufacture
	Total	20 or more employees			Total	20 or more employees		
New Industry 3542, Metal-forming machine tools, total.....	291	147	22,502	176,021	xxx	xxx	xxx	xxx
Old Industry 3542, Metalworking machinery.....	287	145	(D)	(D)	608	267	51,927	472,548
All other industries <sup>2</sup> .....	4	2	(D)	(D)	xxx	xxx	xxx	xxx
New Industry 3544, Special dies and tools, total.....	5,745	994	83,308	780,090	xxx	xxx	xxx	xxx
Old Industry 3544, Special dies and tools.....	4,822	832	69,016	655,070	4,827	835	70,666	665,910
Old Industry 3594, Industrial patterns and molds.....	874	150	13,297	118,067	2,046	246	22,159	196,253
Old Industry 3599, Machine shops.....	34	4	488	3,235	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
All other industries <sup>2</sup> .....	15	8	507	3,718	xxx	xxx	xxx	xxx
New Industry 3548, Metalworking machinery, nec, total.....	362	143	33,328	332,397	xxx	xxx	xxx	xxx
Old Industry 3542, Metalworking machinery.....	312	118	30,424	303,750	608	267	51,927	472,548
Old Industry 3589, Service and household machines, nec.....	47	23	2,820	27,992 <sup>1</sup>	320	113	14,500	179,365
All other industries <sup>2</sup> .....	3	2	84	655	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>These totals may represent slight revisions from the preliminary figures previously published for these industries.

<sup>2</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product classification to conform to the new SIC and because of classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>3</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.



Table 2—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see Text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expenditures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
									(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	
3541	Metal-cutting machine tools, total.....	627	231	52,864	300,344	36,154	69,616	182,171	420,961	679,836	18,840	80,959	788,219	70,001
	New England.....	90	42	12,134	68,524	7,988	15,612	40,566	88,982	141,125	3,226	27,099	239,611	23,146
	Vermont.....	6	4	3,289	16,828	2,152	3,659	9,516	18,528	28,668	903	4,644	45,037	(D)
	Massachusetts...	35	18	4,400	24,289	2,611	5,297	12,662	31,939	49,073	798	6,233	57,807	4,103
	Connecticut.....	35	16	3,699	23,545	2,725	5,547	16,014	32,522	53,411	1,233	10,627	103,827	8,294
	Middle Atlantic...	109	27	6,322	33,713	4,591	8,569	22,408	48,081	69,482	1,591	7,656	69,282	7,569
	New York.....	58	19	4,756	26,340	3,445	6,651	18,189	36,944	52,543	1,181	5,105	45,457	4,230
	New Jersey.....	30	3	471	2,559	334	581	1,363	3,651	5,239	(2)	870	6,823	1,270
	Pennsylvania....	21	5	1,095	4,814	812	1,337	2,856	7,486	11,700	(2)	1,680	17,001	2,069
	East North Central	316	141	32,509	188,358	22,234	42,886	113,075	267,130	441,189	13,299	43,736	463,389	37,502
	Ohio.....	81	39	15,063	82,402	10,778	20,743	51,896	121,456	188,048	7,503	19,319	192,161	17,275
	Indiana.....	14	5	1,344	7,909	992	2,132	5,903	12,627	20,130	(2)	1,585	17,831	1,722
	Illinois.....	69	28	6,281	36,267	3,975	7,830	19,632	50,946	89,604	2,097	7,630	81,063	4,244
	Michigan.....	121	48	5,587	36,514	3,878	7,314	21,546	45,705	83,368	1,108	9,044	101,418	8,359
	Wisconsin.....	31	21	4,234	25,266	2,611	4,867	14,098	36,396	60,039	2,111	6,156	70,913	5,902
	West North Central	25	9	912	4,942	631	1,259	3,024	6,796	12,354	(2)	1,197	6,943	1,377
	Minnesota.....	5	3	555	3,192	394	802	1,949	4,146	8,209	(2)	625	3,662	426
	Missouri.....	13	4	208	1,006	133	234	625	1,535	2,112	(2)	151	855	660
	South.....	22	7	465	2,208	350	667	1,364	5,011	7,383	(2)	505	3,459	(3)
	West.....	65	5	522	2,599	360	623	1,734	4,961	8,303	(2)	764	5,532	(3)
	California.....	55	4	455	2,363	304	544	1,547	4,495	7,571	(2)	729	5,287	(3)
3542	Metal-forming machine tools, total.....	291	147	22,502	132,368	15,572	30,905	82,192	176,021	317,657	11,723	(4)	(4)	(4)
	New England.....	32	18	2,242	12,029	1,640	3,234	7,900	16,749	30,171	3,415	(4)	(4)	(4)
	Connecticut.....	18	12	1,920	10,573	1,404	2,815	6,937	14,578	27,092	(D)	(4)	(4)	(4)
	Middle Atlantic...	67	33	4,773	27,745	2,977	5,616	14,918	33,635	62,252	761	(4)	(4)	(4)
	New York.....	36	18	2,646	14,975	1,518	2,802	7,393	16,871	37,627	(2)	(4)	(4)	(4)
	New Jersey.....	13	6	1,104	7,158	731	1,437	4,228	9,346	12,737	(2)	(4)	(4)	(4)
	Pennsylvania....	18	9	1,023	5,612	728	1,377	3,297	7,418	11,888	(2)	(4)	(4)	(4)
	East North Central	137	73	13,231	79,249	9,327	18,839	51,071	106,966	193,262	6,621	(4)	(4)	(4)
	Ohio.....	49	32	6,567	38,694	4,709	9,328	25,153	50,564	96,662	4,232	(4)	(4)	(4)
	Indiana.....	8	4	278	1,626	202	440	1,024	2,173	4,299	(2)	(4)	(4)	(4)
	Illinois.....	36	23	5,098	31,322	3,509	7,248	19,944	44,251	75,565	2,030	(4)	(4)	(4)
	Michigan.....	38	12	1,152	6,906	818	1,647	4,556	8,966	15,248	(2)	(4)	(4)	(4)
	Wisconsin.....	6	2	136	701	89	176	394	1,012	1,488	(2)	(4)	(4)	(4)
	West North Central	17	7	608	3,422	466	991	2,296	5,473	8,904	(2)	(4)	(4)	(4)
	Missouri.....	10	3	190	942	149	284	637	1,581	2,656	(2)	(4)	(4)	(4)
	South.....	12	4	299	1,483	219	418	862	2,944	4,446	(2)	(4)	(4)	(4)
	West.....	26	12	1,349	8,440	943	1,807	5,145	10,254	18,622	(2)	(4)	(4)	(4)
3544	Special dies and tools, total.....	5,745	994	83,308	536,588	68,916	139,877	415,241	780,090	1,060,566	43,242	(4)	(4)	(4)
	New England.....	631	86	7,628	42,874	6,209	12,696	32,818	63,285	82,614	3,373	(4)	(4)	(4)
	Massachusetts...	262	48	3,205	18,352	2,584	5,354	13,702	27,231	35,568	1,320	(4)	(4)	(4)
	Rhode Island....	53	5	483	2,339	401	772	1,815	3,253	4,786	(2)	(4)	(4)	(4)
	Connecticut.....	301	32	3,536	19,977	2,886	5,861	15,469	29,018	38,039	(D)	(4)	(4)	(4)
	Middle Atlantic...	1,269	182	14,436	80,559	11,887	23,692	61,396	120,120	164,702	7,376	(4)	(4)	(4)
	New York.....	586	72	5,933	33,149	4,814	9,348	24,637	50,435	68,516	2,686	(4)	(4)	(4)
	New Jersey.....	402	55	4,230	23,105	3,541	7,302	18,195	35,165	47,147	1,946	(4)	(4)	(4)
	Pennsylvania....	281	55	4,273	24,305	3,532	7,042	18,564	34,520	49,039	2,744	(4)	(4)	(4)
	East North Central	2,819	593	50,018	347,992	41,523	85,123	270,532	494,103	673,154	24,755	(4)	(4)	(4)
	Ohio.....	662	151	10,566	70,947	8,732	17,997	53,978	97,408	131,403	4,839	(4)	(4)	(4)
	Indiana.....	287	66	5,042	31,084	4,030	8,183	22,817	43,715	59,592	2,239	(4)	(4)	(4)
	Illinois.....	578	95	7,666	48,037	6,398	12,667	37,981	69,458	97,750	7,105	(4)	(4)	(4)
	Michigan.....	1,097	255	24,391	183,106	20,468	42,482	144,003	260,607	354,416	8,718	(4)	(4)	(4)
	Wisconsin.....	195	26	2,353	14,818	1,895	3,794	11,753	22,915	29,993	1,854	(4)	(4)	(4)
	West North Central	203	26	2,216	12,989	1,788	3,609	10,076	20,545	27,353	1,379	(4)	(4)	(4)
	Minnesota.....	51	4	680	4,206	564	1,205	3,410	6,344	8,371	(2)	(4)	(4)	(4)
	Missouri.....	90	14	999	5,828	780	1,555	4,372	9,493	12,836	791	(4)	(4)	(4)
	Kansas.....	24	3	205	992	168	281	796	1,464	2,084	(2)	(4)	(4)	(4)
	South Atlantic...	134	19	1,521	7,753	1,223	2,340	5,655	12,604	17,966	893	(4)	(4)	(4)
	North Carolina..	16	1	149	716	109	190	465	1,194	1,752	(2)	(4)	(4)	(4)
	Georgia.....	20	5	373	2,009	301	565	1,424	3,738	5,521	(2)	(4)	(4)	(4)
	Florida.....	43	5	443	2,232	366	727	1,619	3,303	4,676	(2)	(4)	(4)	(4)
	East South Central	64	8	661	3,481	564	1,122	2,788	5,509	7,643	(2)	(4)	(4)	(4)
	Tennessee.....	28	4	333	1,703	283	571	1,354	2,989	4,206	(2)	(4)	(4)	(4)
	West South Central	72	10	679	3,186	558	1,044	2,564	5,259	7,564	908	(4)	(4)	(4)
	Arkansas.....	6	1	111	477	95	128	400	688	974	(2)	(4)	(4)	(4)
	Texas.....	47	7	450	2,152	359	702	1,685	3,596	5,251	765	(4)	(4)	(4)
	Mountain.....	35	5	479	2,858	395	816	2,236	4,407	5,319	(2)	(4)	(4)	(4)
	Pacific.....	518	65	5,670	34,896	4,769	9,435	27,176	54,258	74,251	3,691	(4)	(4)	(4)
	California.....	497	64	5,566	34,354	4,673	9,264	26,676	53,364	73,073	3,665	(4)	(4)	(4)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital ex- pendi- tures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3545	Machine tool accessories, total.....	905	297	41,521	226,949	29,304	56,299	143,663	348,580	511,456	15,277	44,877	351,607	(4)
	New England.....	158	63	14,050	69,860	9,970	18,657	44,061	104,124	153,101	4,652	12,306	83,820	(4)
	Massachusetts.....	58	24	5,841	26,874	4,341	8,119	18,724	45,153	63,687	1,574	6,808	45,078	(4)
	Rhode Island.....	24	12	3,144	16,141	2,175	3,936	8,966	22,023	34,813	1,563	1,533	11,100	(4)
	Connecticut.....	69	23	4,364	23,618	2,940	5,586	14,200	31,403	46,443	1,319	3,184	22,637	(4)
	Middle Atlantic.....	149	39	4,798	23,361	3,450	6,562	14,973	35,359	55,137	2,026	5,412	40,463	(4)
	New York.....	72	16	1,150	5,694	840	1,568	3,677	8,012	13,893	(2)	1,318	8,572	(4)
	New Jersey.....	35	7	526	2,756	388	760	1,770	3,786	5,985	(2)	404	3,145	(4)
	Pennsylvania.....	42	16	3,122	14,911	2,222	4,234	9,526	23,561	35,259	1,480	3,688	28,745	(4)
	East North Central	472	162	20,124	120,340	14,075	27,508	76,075	185,013	269,497	7,387	25,462	214,561	(4)
	Ohio.....	83	31	5,391	30,400	3,858	7,423	19,564	50,644	70,204	2,479	6,490	54,968	(4)
	Indiana.....	24	2	460	2,090	306	552	1,295	3,347	4,702	(2)	721	6,200	(4)
	Illinois.....	75	32	4,332	24,822	2,993	5,809	15,409	35,910	54,387	1,470	4,430	31,547	(4)
	Michigan.....	<sup>r</sup> 266	<sup>r</sup> 90	<sup>r</sup> 9,472	<sup>r</sup> 60,596	<sup>r</sup> 6,610	<sup>r</sup> 13,104	<sup>r</sup> 38,287	<sup>r</sup> 91,163	<sup>r</sup> 134,311	<sup>r</sup> 3,059	<sup>r</sup> 13,474	<sup>r</sup> 118,873	(4)
	Wisconsin.....	<sup>r</sup> 24	<sup>r</sup> 7	<sup>r</sup> 469	<sup>r</sup> 2,432	<sup>r</sup> 308	<sup>r</sup> 620	<sup>r</sup> 1,520	<sup>r</sup> 3,949	<sup>r</sup> 5,893	(2)	344	2,971	(4)
	West North Central	17	7	840	4,042	466	907	2,064	6,969	9,922	(2)	429	2,577	(4)
	Missouri.....	10	3	472	2,566	311	617	1,453	4,596	6,452	(2)	155	1,109	(4)
	South.....	27	7	573	2,596	441	825	1,539	5,453	7,937	(2)	446	3,395	(4)
	West.....	82	19	1,136	6,750	902	1,840	4,951	11,662	15,862	723	822	6,791	(4)
	California.....	79	19	1,111	6,632	882	1,802	4,859	11,535	15,654	(2)	768	6,317	(4)
3548	Metalworking machinery, nec, total.....	362	143	33,328	183,307	24,384	46,915	120,444	332,397	602,015	16,634	(4)	(4)	(4)
	New England.....	33	12	2,835	16,044	2,064	4,292	9,902	28,679	44,014	1,343	(4)	(4)	(4)
	Connecticut.....	16	7	1,437	7,891	1,023	1,997	4,955	12,937	22,170	(2)	(4)	(4)	(4)
	Middle Atlantic.....	78	30	12,291	69,899	9,292	18,008	50,242	117,835	226,645	4,411	(4)	(4)	(4)
	New York.....	28	6	2,079	11,177	1,334	2,552	6,644	24,293	37,154	739	(4)	(4)	(4)
	New Jersey.....	16	7	1,851	9,179	1,056	2,116	5,179	14,439	20,789	962	(4)	(4)	(4)
	Pennsylvania.....	34	17	8,361	49,543	6,902	13,340	38,419	79,103	168,702	2,710	(4)	(4)	(4)
	East North Central	145	62	11,500	64,005	8,261	15,920	39,085	120,680	227,838	4,978	(4)	(4)	(4)
	Ohio.....	53	30	5,161	31,103	3,748	7,389	19,581	56,010	117,519	2,450	(4)	(4)	(4)
	Indiana.....	12	1	104	614	91	179	490	1,124	1,646	(2)	(4)	(4)	(4)
	Illinois.....	37	13	3,621	18,632	2,775	5,243	11,423	37,702	68,901	1,724	(4)	(4)	(4)
	Michigan.....	32	14	1,997	10,058	1,220	2,269	5,433	19,017	28,844	(2)	(4)	(4)	(4)
	Wisconsin.....	11	4	617	3,598	427	840	2,158	6,827	10,928	(2)	(4)	(4)	(4)
	West North Central	26	15	1,637	8,879	1,001	1,970	4,248	15,258	23,125	(2)	(4)	(4)	(4)
	Minnesota.....	6	4	331	2,098	192	421	1,046	3,164	4,450	(2)	(4)	(4)	(4)
	Iowa.....	8	4	772	4,101	430	806	1,700	6,702	10,922	(2)	(4)	(4)	(4)
	Missouri.....	8	3	328	1,732	226	450	881	3,867	5,360	(2)	(4)	(4)	(4)
	South.....	23	12	3,942	18,224	2,953	5,162	12,882	37,100	62,461	973	(4)	(4)	(4)
	West.....	57	12	1,123	6,256	813	1,563	4,085	12,845	17,932	4,720	(4)	(4)	(4)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>r</sup>Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3541, Metal-Cutting Machine Tools: New England--Maine, 1 (100-249); New Hampshire, 3 (250-499); Rhode Island, 10 (250-499); West North Central--Iowa, 1 (1-19); South Dakota, 1 (20-99); Nebraska, 2 (1-19); Kansas, 3 (20-99); South--Maryland, 3 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Florida, 2 (1-19); Kentucky, 3 (100-249); Oklahoma, 4 (20-99); Texas, 8 (100-249); West--Montana, 1 (1-19); New Mexico, 1 (1-19); Arizona, 1 (1-19); Washington, 2 (1-19); Oregon, 5 (20-99).

SIC 3542, Metal-Forming Machine Tools: New England--New Hampshire, 1 (1-19); Massachusetts, 10 (100-249); Rhode Island, 3 (20-99); West North Central--Minnesota, 6 (250-499); Iowa, 1 (100-249); South--Maryland, 1 (1-19); Virginia, 1 (1-19); North Carolina, 2 (100-249); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 1 (1-19); Alabama, 1 (1-19); Oklahoma, 1 (1-19); Texas, 3 (20-99); West--Idaho, 1 (1-19); Colorado, 1 (1-19); Washington, 1 (100-249); Oregon, 2 (1-19); California, 21 (1,090).

SIC 3544, Special Dies and Tools: New England--Maine, 2 (1-19); New Hampshire, 10 (20-99); Vermont, 3 (250-499); West North Central--Iowa, 35 (250-499); Nebraska, 3 (1-19); South Atlantic--Delaware, 7 (20-99); Maryland, 30 (250-499); Virginia, 8 (20-99); West Virginia, 9 (20-99); South Carolina, 1 (1-19); East South Central--Kentucky, 22 (100-249); Alabama, 11 (100-249); Mississippi, 3 (1-19); West South Central--Louisiana, 7 (20-99); Oklahoma, 12 (20-99); Mountain--Idaho, 1 (1-19); Wyoming, 1 (1-19); Colorado, 9 (20-99); New Mexico, 3 (20-99); Arizona, 21 (250-499); Pacific--Washington, 11 (20-99); Oregon, 10 (20-99).

SIC 3545, Machine Tool Accessories: New England--Maine, 1 (1-19); New Hampshire, 2 (100-249); Vermont, 4 (500-999); West North Central--Minnesota, 4 (250-499); Iowa, 2 (20-99); Kansas, 1 (20-99); South--Maryland, 3 (20-99); Virginia, 1 (1-19); North Carolina, 2 (1-19); East South Central--Kentucky, 4 (20-99); Tennessee, 2 (20-99); Alabama, 1 (1-19); Mississippi, 1 (1-19); Arkansas, 2 (20-99); Texas, 6 (20-99); West--Colorado, 2 (1-19); Washington, 1 (1-19).

SIC 3548, Metalworking Machinery, NEC: New England--New Hampshire, 1 (1-19); Vermont, 2 (20-99); Massachusetts, 12 (1,303); Rhode Island, 2 (1-19); West North Central--North Dakota, 1 (20-99); Nebraska, 1 (20-99); Kansas, 2 (100-249); South--Delaware, 3 (100-249); Maryland, 3 (1,000-2,499); Virginia, 1 (1-19); West Virginia, 1 (1,000-2,499); North Carolina, 1 (1-19); Georgia, 2 (20-99); Florida, 2 (20-99); Tennessee, 1 (1-19); Alabama, 1 (20-99); Louisiana, 1 (1-19); Texas, 7 (250-499); West--New Mexico, 1 (1-19); Washington, 3 (1-19); Oregon, 2 (20-99); California, 51 (1,063).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).



## METALWORKING MACHINERY AND EQUIPMENT

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Table 3.—Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Metal-cutting machine tools (SIC 3541)	Metal-forming machine tools (SIC 3542)	Special dies and tools (SIC 3544)	Machine tool accessories (SIC 3545)	Metalworking machinery, nec (SIC 3548)
Primary product specialization ratio <sup>1</sup> .....	85	82	93	85	91
Coverage ratio <sup>2</sup> .....	89	80	68	85	85
Number of establishments, total.....	627	291	5,745	905	362
With 1-19 employees.....	396	144	4,751	608	219
With 20-99 employees.....	135	95	893	217	80
With 100 employees or more.....	96	52	101	80	63
Proprietors and working partners.....Number..	315	97	3,877	445	133
All employees:					
Number (average for the year).....	52,864	22,502	83,308	41,521	33,238
Payroll.....\$1,000..	300,344	132,368	536,588	226,949	183,307
Production workers:					
Number (average for the year).....	36,154	15,572	68,916	29,304	24,384
March.....	38,912	16,993	71,792	31,319	25,567
May.....	37,091	15,844	73,085	28,890	24,646
August.....	34,879	14,852	65,533	27,719	23,536
November.....	34,005	14,704	67,499	29,723	23,834
Man-hours.....1,000..	69,616	30,905	139,877	56,299	46,915
January-March.....do....	19,942	8,741	35,617	15,563	12,627
April-June.....do....	17,233	7,946	37,017	13,633	11,908
July-September.....do....	15,102	6,737	31,267	12,130	10,618
October-December.....do....	17,052	7,367	32,519	14,532	11,553
Wages.....\$1,000..	182,171	82,192	415,241	143,663	120,444
Cost of materials, etc., total.....do....	217,738	130,143	275,030	143,142	241,230
Materials, parts, containers, and supplies consumed.....do....	192,497	111,608	217,315	114,880	198,035
Cost of resales.....do....	10,741	6,671	7,513	12,020	24,652
Fuels consumed.....do....	3,016	1,296	4,291	2,154	2,886
Electricity purchased.....do....	4,985	1,886	6,873	4,420	2,951
Contract work.....do....	6,578	8,672	39,142	9,730	14,648
Value of shipments (including resales), total.....do....	679,836	317,657	1,060,566	511,456	602,015
Value of resales.....do....	13,812	8,287	9,829	15,182	29,160
Value added by manufacture, adjusted.....do....	420,961	176,021	780,090	348,580	332,397
Manufacturers' inventories:					
Beginning of year, total.....do....	283,764	120,435	101,712	171,968	189,366
Finished products.....do....	72,551	30,504	14,176	70,245	50,946
Work-in-process.....do....	155,677	52,516	59,926	63,148	104,543
Materials, supplies, fuel, etc.....do....	55,536	37,415	27,610	38,575	33,877
End of year, total.....do....	231,831	103,717	97,134	<sup>r</sup> 147,094	<sup>r</sup> 157,544
Finished products.....do....	65,599	26,597	12,727	60,505	47,815
Work-in-process.....do....	121,492	44,930	55,929	53,154	79,286
Materials, supplies, fuel, etc.....do....	44,740	32,190	28,478	33,435	30,443
Expenditures for plant and equipment, total.....do....	20,432	12,179	50,680	16,810	17,397
New, total.....do....	18,840	11,723	43,242	15,277	16,634
New structures and additions to plant.....do....	1,921	3,828	11,596	2,928	3,333
New machinery and equipment.....do....	16,919	7,895	31,646	12,349	13,301
Used plant and equipment.....do....	1,592	456	7,438	1,533	763

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3541	Metal-cutting machine tools:											
	Number of establishments.....	627	213	99	84	88	47	48	21	17	9	1
	All employees:											
	Number.....	52,864	435	692	1,130	2,878	3,221	7,756	7,408	11,951	<u>17,393</u>	(D)
	Payroll.....\$1,000..	300,344	1,713	3,270	5,864	16,000	19,189	43,797	43,336	66,880	<u>100,295</u>	(D)
	Value added, adjusted..do....	420,961	4,540	6,068	8,999	23,187	30,928	61,377	66,147	90,345	<u>129,370</u>	(D)
	Value of shipments.....do....	679,836	6,805	9,848	15,073	40,903	49,677	103,821	105,036	146,585	<u>202,088</u>	(D)
	Capital expend., new...do....	18,840	565	( <sup>1</sup> )	( <sup>1</sup> )	641	1,257	2,245	3,299	3,883	<u>6,216</u>	(D)
3542	Metal-forming machine tools:											
	Number of establishments.....	291	60	41	43	65	30	31	10	9	2	...
	All employees:											
	Number.....	22,502	136	272	608	2,025	2,135	4,910	3,492	8,924	(D)	...
	Payroll.....\$1,000..	132,368	674	1,481	3,297	11,301	12,136	28,730	21,167	53,582	(D)	...
	Value added, adjusted..do....	176,021	1,499	2,221	5,713	16,181	16,935	40,908	26,830	65,734	(D)	...
	Value of shipments.....do....	317,657	2,288	3,478	8,990	24,978	28,812	75,663	56,417	117,031	(D)	...
	Capital expend., new...do....	11,723	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	522	504	1,972	1,904	5,998	(D)	...
3544	Special dies and tools:											
	Number of establishments.....	5,745	2,363	1,282	1,106	729	164	82	15	...	4	...
	All employees:											
	Number.....	83,308	4,882	8,681	14,986	21,369	10,817	12,213	5,102	...	5,258	...
	Payroll.....\$1,000..	536,588	24,141	48,221	88,550	142,674	71,818	89,272	33,240	...	38,672	...
	Value added, adjusted..do....	780,090	50,984	75,333	128,589	202,523	103,697	118,573	45,398	...	54,993	...
	Value of shipments.....do....	1,060,566	70,774	102,661	173,720	270,602	138,762	167,175	64,091	...	72,781	...
	Capital expend., new...do....	43,242	6,601	5,885	6,794	9,844	4,248	3,534	2,547	...	3,790	...
3545	Machine tool accessories:											
	Number of establishments.....	905	270	167	171	148	69	47	19	9	5	...
	All employees:											
	Number.....	41,521	550	1,134	2,369	4,499	4,664	6,911	6,494	7,162	7,738	...
	Payroll.....\$1,000..	226,949	2,661	5,691	12,799	25,537	25,839	37,917	35,933	37,498	43,074	...
	Value added, adjusted..do....	348,580	5,771	10,081	18,835	38,606	41,785	55,242	57,316	61,474	59,470	...
	Value of shipments.....do....	511,456	9,108	14,904	28,733	56,445	62,573	81,333	77,678	92,734	87,948	...
	Capital expend., new...do....	15,277	( <sup>1</sup> )	605	963	1,156	1,730	1,899	2,066	3,023	3,404	...
3548	Metalworking machinery, nec:											
	Number of establishments.....	362	90	76	53	45	35	28	15	13	6	1
	All employees:											
	Number.....	33,328	188	498	717	1,356	2,301	4,229	5,114	8,999	<u>9,926</u>	(D)
	Payroll.....\$1,000..	183,307	807	2,402	3,737	7,868	12,470	23,447	27,390	49,226	<u>55,960</u>	(D)
	Value added, adjusted..do....	332,397	2,597	4,550	7,047	14,069	23,341	41,869	49,316	87,505	<u>102,103</u>	(D)
	Value of shipments.....do....	602,015	4,504	7,607	12,176	20,731	38,440	74,594	90,004	164,134	<u>189,825</u>	(D)
	Capital expend., new...do....	16,634	( <sup>1</sup> )	( <sup>1</sup> )	560	508	5,135	1,475	1,394	4,032	<u>2,567</u>	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. class code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3541	Metal-cutting machine tools.....1958..	679,836	529,343	92,614	57,879	85	592,549	529,343	63,206	89
	1954..	1,171,543	926,494	177,441	67,608	84	1,002,006	926,494	75,512	92
3542	Metal-forming machine tools.....1958..	317,657	230,191	49,498	37,968	82	289,478	230,191	59,287	80
3544	Special dies and tools.....1958..	1,060,566	905,775	64,333	90,458	93	1,332,393	905,775	426,618	68
3545	Machine tool accessories.....1958..	511,456	401,680	73,371	36,405	85	470,197	401,680	68,517	85
	1954..	486,764	401,761	60,025	24,978	87	541,031	401,761	139,270	74
3548	Metalworking machinery, nec.....1958..	602,015	494,345	48,441	59,229	91	580,161	494,345	85,816	85

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Class of products and miscellaneous receipts	Metal-cutting machine tools (SIC 3541)	Metal-forming machine tools (SIC 3542)	Special dies and tools (SIC 3544)	Machine tool accessories (SIC 3545)	Metal-working machinery nec (SIC 3548)	Other industries	All industries
	Total shipments and receipts of the industry.....	679,836	317,657	1,060,566	511,456	602,015	xxx	xxx
	Metalworking machinery, total.....	581,099	266,336	919,052	444,869	505,543	547,879	3,264,778
35411	Boring machines.....	49,032	(D)	(D)	(D)	...	555	52,791
35412	Drilling machines.....	27,619	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	2,807	30,949
35413	Gear cutting and finishing machines.....	21,011	...	...	2,027	...	463	23,501
35414	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing and buffing machines).....	78,519	694	566	5,841	1,400	4,410	91,430
35415	Lathes.....	90,805	(D)	( <sup>1</sup> )	4,357	( <sup>1</sup> )	(D)	98,599
35416	Milling machines.....	83,178	419	406	3,432	...	1,971	89,406
35418	Other machine tools (including those designed primarily for home workshops, laboratories, etc.).....	82,592	1,673	1,119	4,463	1,076	7,347	98,270
35419	Parts for metal-cutting type machine tools sold separately and rebuilt machine tools.....	78,819	1,463	1,181	3,452	( <sup>1</sup> )	3,818	88,742
35410	Machine tools, metal-cutting type, nsk.....	17,768	( <sup>1</sup> )	( <sup>1</sup> )	...	...	1,082	18,861
35421	Punching, shearing, bending, and forming machines.....	1,956	56,687	(D)	( <sup>1</sup> )	(D)	<sup>2</sup> 6,552	68,443
35422	Presses, including forging presses.....	1,356	66,226	297	(D)	(D)	<sup>3</sup> 10,067	79,065
35423	Other metal forming machines.....	811	49,418	659	973	1,832	7,098	60,791
35424	Parts for metal forming machine tools and rebuilt metal forming machinery.....	2,126	54,986	2,639	428	1,440	<sup>4</sup> 16,571	78,190
35420	Machine tools, metal forming type, nsk.....	( <sup>1</sup> )	2,874	( <sup>1</sup> )	...	( <sup>1</sup> )	( <sup>1</sup> )	2,989
35441	Special dies and tools, die sets, jigs, and fixtures....	5,427	17,227	761,099	14,729	1,935	<sup>5</sup> 356,926	1,157,343
35442	Industrial molds.....	...	( <sup>1</sup> )	144,676	...	...	<sup>6</sup> 30,360	175,050
35451	Small cutting tools for machine tools and metalworking machinery.....	16,734	387	959	268,916	1,364	<sup>7</sup> 12,849	301,209
35452	Precision measuring tools.....	4,597	( <sup>1</sup> )	642	51,136	( <sup>1</sup> )	4,465	60,871

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Class of products and miscellaneous receipts	Metal- cutting machine tools (SIC 3541)	Metal- forming machine tools (SIC 3542)	Special dies and tools (SIC 3544)	Machine tool accessories (SIC 3545)	Metal- working machinery nec (SIC 3458)	Other industries	All industries
	Metalworking machinery--Continued							
35453	Other attachments and accessories for machine tools and metal working machinery.....	16,867	1,682	1,509	70,193	( <sup>1</sup> )	5,904	96,168
35450	Machine tool accessories, nsk.....	...	(D)	(D)	11,435	...	300	11,949
35481	Rolling mill machinery and equipment.....	306	8,657	(D)	( <sup>1</sup> )	219,606	<sup>a</sup> 23,062	252,164
35482	Power-driven hand tools.....	911	( <sup>1</sup> )	157	337	178,559	<sup>a</sup> 30,635	210,628
35483	Acetylene welding and cutting apparatus.....	(D)	(D)	( <sup>1</sup> )	(D)	32,365	<sup>10</sup> 5,216	38,088
35484	Automotive maintenance equipment.....	...	...	(D)	...	34,303	(D)	44,183
35485	Other metalworking machinery.....	(D)	(D)	( <sup>1</sup> )	...	13,830	2,994	17,627
35480	Metalworking machinery, nsk.....	...	974	( <sup>1</sup> )	( <sup>1</sup> )	15,682	721	17,471
	Other products, total.....	<sup>r</sup> 40,858	<sup>r</sup> 13,353	<sup>r</sup> 51,056	<sup>r</sup> 30,182	<sup>r</sup> 37,243	xxx	xxx
3291-	Abrasive products.....	2,247	...	...	...	...	xxx	xxx
3321-	Gray iron foundries.....	2,565	...	...	...	...	xxx	xxx
3423-	Edge tools.....	...	...	...	2,048	4,414	xxx	xxx
34610	Metal stampings, nsk.....	...	...	2,531	...	...	xxx	xxx
34612	Job stampings, except automotive.....	...	...	3,483	...	...	xxx	xxx
34613	Job stampings, automotive.....	...	...	4,006	...	...	xxx	xxx
3522-	Farm machinery and equipment.....	...	...	...	...	5,408	xxx	xxx
3532-	Mining machinery and equipment.....	...	...	...	4,908	...	xxx	xxx
35531	Woodworking machinery except home workshop.....	3,525	...	...	...	...	xxx	xxx
35593	Plastics-working machinery and equipment, except molds..	3,191	...	...	...	...	xxx	xxx
35595	Other special industry machinery and equipment.....	...	...	5,686	...	...	xxx	xxx
35650	Industrial patterns, except shoe.....	...	...	2,239	...	...	xxx	xxx
35990	Carburetors, pistons, and other machine shop products....	...	...	2,683	...	...	xxx	xxx
3621-	Motors and generators.....	...	...	...	...	2,321	xxx	xxx
36620	General industrial power circuits and controls.....	2,524	...	...	...	...	xxx	xxx
37224	Aircraft engine parts.....	...	...	2,790	...	...	xxx	xxx
37291	Other aircraft parts and auxiliary equipment.....	...	...	3,121	...	...	xxx	xxx
	Other.....	<sup>r</sup> 11,26,806	<sup>r</sup> 13,353	<sup>r</sup> 12,24,517	<sup>r</sup> 13,23,226	<sup>r</sup> 14,25,100	xxx	xxx
	Miscellaneous receipts, total.....	<sup>r</sup> 57,879	<sup>r</sup> 37,968	<sup>r</sup> 90,458	<sup>r</sup> 36,405	<sup>r</sup> 59,229	xxx	xxx
	Contract and commission work.....	17,226	16,106	60,313	11,852	12,038	xxx	xxx
	Sales of products bought and resold.....	13,812	8,287	9,829	15,182	29,160	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work..	14,413	10,966	15,268	5,540	13,691	xxx	xxx
	Other.....	<sup>r</sup> 12,428	<sup>r</sup> 2,609	<sup>r</sup> 5,048	<sup>r</sup> 3,831	<sup>r</sup> 4,340	xxx	xxx

D Withheld to avoid disclosing figures of individual companies. <sup>r</sup> Revised.<sup>1</sup>Less than \$100 thousand.<sup>2</sup>Includes \$2,618 thousand shipped by Industry 3564, Blowers and Fans.<sup>3</sup>Includes shipments by the following industries, which total \$2 million or more but which are withheld to avoid disclosing individual company figures: Industry 3561, Pumps and Compressors and Industry 3599, Machine Shops.<sup>4</sup>Includes shipments by the following industry which total \$2 million or more but which are withheld to avoid disclosing individual company figures: Industry 3566, Power Transmission Equipment.<sup>5</sup>Includes \$12,101 thousand shipped by Industry 3361, Aluminum Castings; \$8,751 thousand shipped by Industry 3369, Nonferrous Castings, NEC; \$8,609 thousand shipped by Industry 3391, Iron and Steel Forgings; \$5,845 thousand shipped by Industry 3392, Nonferrous Forgings; \$58,145 thousand shipped by Industry 3461, Metal Stampings; \$7,885 thousand shipped by Industry 3599, Machine Shops; \$2,576 thousand shipped by Industry 3722, Aircraft Engines and Parts; and \$3,594 thousand shipped by Industry 3729, Aircraft Equipment, NEC; in addition the following industries had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: Industry 3351, Copper Rolling and Drawing; Industry 3429, Hardware, NEC; and Industry 3717, Motor Vehicles and Parts.<sup>6</sup>Includes \$13,014 thousand shipped by Industry 3079, Plastic Products, NEC; \$3,029 thousand shipped by Industry 3361, Aluminum Castings; and \$4,055 thousand shipped by Industry 3599, Special Industry Machinery, NEC; in addition the following industry had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: Industry 3312, Blast Furnaces and Steel Mills.<sup>7</sup>Includes \$2,319 thousand shipped by Industry 3532, Mining Machinery and Equipment; in addition the following industry had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: Industry 3449, Miscellaneous Metal Work, NEC.<sup>8</sup>Includes shipments by the following industries which total \$2 million or more but which are withheld to avoid disclosing individual company figures: Industry 3323, Steel Foundries, and Industry 3443, Boiler Shop Products.<sup>9</sup>Includes \$6,585 thousand shipped by Industry 3634, Electric Housewares and Fans; in addition, the following industries had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: Industry 3553, Woodworking Machinery; Industry 3589, Service Industry Machines, NEC; and Industry 3729, Aircraft Equipment, NEC.<sup>10</sup>Includes \$2,433 thousand shipped by Industry 3623, Welding Apparatus.<sup>11</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 28993, Essential oils, fireworks and pyrotechnics, chemical and chemical preparations, NEC; 34231, Mechanics hand service tools; and 35521, Textile machinery.<sup>12</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 37175, Parts and accessories for motor cars, trucks and busses shipped to motor vehicle manufacturers.<sup>13</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 33130, Electrometallurgical products, nec; 34250, Hand saws, saw blades and accessories; and 35228, All other farm machinery and equipment.<sup>14</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 33230, Steel castings, and 35361, Hoists.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product class code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3541---	Metal-cutting type machine tools, total.....	xxx	592,549	xxx	1,002,006
	Metal-cutting type machine tools:				
	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	472,346	xxx	879,020
	As reported on Census Annual Form MA-35W, total <sup>1</sup> .....	xxx	462,934	xxx	...
3541110	Boring machines.....	1,403	51,563	xxx	114,443
	Horizontal boring; drilling and milling machines:				
	Table type.....	215	11,114	486	20,662
	Floor type.....	47	5,215	126	11,325
	All other.....	17	1,527	32	1,726
	Vertical boring and turning mills (including vertical turret lathes).....	170	14,471	627	36,516
	Precision boring machines.....	428	9,971	1,146	26,488
	Jig boring machines.....	260	4,931	629	10,723
	All other boring machines.....	266	4,334	141	6,168
	Boring machines, not specified by type.....	xxx	...	xxx	835
3541210	Drilling machines.....	xxx	30,023	xxx	86,066
	Sensitive drilling machines (chuck fitted to spindle nose - No. 1, 2, 3, or 4 morse taper):				
	Bench type:				
	Average value under \$1,000 (quantity in number of spindles).....	4,434	951	4,051	852
	Average value \$1,000 or over (quantity in number of spindles).....	38	88		
	Floor and pedestal type:				
	Average value under \$1,000 (quantity in number of spindles).....	1,058	332	6,841	6,321
	Average value \$1,000 or over (quantity in number of spindles).....	1,374	2,507		
	Vertical (upright) drilling machines:				
	Standard single and multiple spindle vertical drilling machines (spindles independently driven):				
	Average value under \$1,000.....	2,770	1,039	821	1,805
	Average value \$1,000 and over.....	140	289		
	Heavy duty drilling machines.....	196	240	104	1,048
	Gang drills (quantity in number of spindles).....	79	198	384	769
	Radial drilling machines:				
	Plain:				
	Under 13" column.....	435	2,064	509	4,035
	13" column and over.....	145	3,169	562	9,026
	All other (including folding arm type).....	34	374	(2)	(2)
	Multiple spindle drilling machines (cluster of spindles driven from one central power unit) (including light industrial type).....	348	8,911	1,319	55,382
	Unit head and way type (including light industrial type).....	213	4,883		
	Deep hole drilling machines, horizontal and vertical.....	80	557	75	1,837
	All other drilling machines.....	176	3,230	2562	23,933
	Drilling machines, nsk.....	xxx	1,191	xxx	1,058
3541310	Gear cutting and finishing machines.....	806	22,661	xxx	48,111
	Gear hobbing machines.....	227	5,733	612	11,786
	Gear shapers and cutters (including planer type).....	157	4,406	1,856	34,925
	All other gear cutting and finishing machines.....	422	12,522		
	Gear cutting and finishing machines, nsk.....	xxx	...	xxx	1,400
3541410	Grinding and polishing machines (except gear tooth grinding, lapping, polishing, and buffing machines).....	xxx	89,367	xxx	154,288
	External cylindrical grinding machines:				
	Plain.....	194	5,466	920	21,999
	Universal.....	247	4,599	584	7,216
	Roll grinders.....	29	3,636	42	4,125
	All other external cylindrical grinding machines, including center-less grinders.....	630	12,337	(3)	(3)
	Internal cylindrical grinding machines.....	(3)	(3)	806	17,915
	Surface grinding machines:				
	Rotary table type, horizontal and vertical.....	639	7,695	789	9,105
	Reciprocating table type, horizontal and vertical spindle (including face grinders and light industrial types).....	2,358	10,270	3,638	17,254
	All other surface grinding machines (including planer type).....	(3)	(3)	142	1,519
	Bench, floor, and snag grinding machines:				
	Bench grinders.....	33,152	1,908	28,464	1,266
	Floor and snag grinders:				
	Average value less than \$500.....	2,145	344	1,960	856
	Average value \$500 or more.....	918	606		
	Tool and cutter grinding machines:				
	Universal:				
	Average value less than \$2,000.....	479	347	1,771	4,644
	Average value \$2,000 or more.....	458	2,196		
	Special:				
	Average value under \$1,000.....	893	279	1,571	6,161
	Average value \$1,000 or more.....	1,062	3,737		

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3541---	Metal-cutting type machine tools--Continued				
	Metal-cutting type machine tools--Continued				
	As reported on Census Annual Form MA-35W <sup>1</sup> --Continued				
3541410	Grinding and polishing machines (except gear tooth grinding, lapping, polishing, and buffing machines)--Continued				
	Polishing and buffing machines:				
	Floor type:				
	Average value under \$1,000.....	349	127	2,476	6,836
	Average value \$1,000 or more.....	568	2,647		
	All other polishing and buffing machines.....	1,253	2,839		
	Thread grinding machines.....	( <sup>3</sup> )	( <sup>3</sup> )	203	7,056
	Honing machines (except gear honing).....	646	2,437	(NA)	5,595
	Lapping machines (except gear lapping).....	287	1,665	393	1,927
	All other grinding machines (radius, spline, contour, plate, edge, jig grinders, crankshaft and other grinding machines, nec).....	<sup>3</sup> 6,618	<sup>3</sup> 25,055	10,301	38,433
	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines), nsk.....	xxx	1,177	xxx	2,381
3541510	Lathes.....	16,983	98,679	xxx	206,886
	Bench lathes (except bench turret lathes) (including light industrial type):				
	Average value under \$1,000.....	6,478	1,751	4,373	3,144
	Average value \$1,000 or over.....	222	496		
	Speed lathes.....	242	146	455	255
	Engine lathes (manufacturing and small tool room lathes):				
	Up to and including 16" swing over the cross slide:				
	Average value under \$2,000.....	3,976	5,083	7,081	27,620
	Average value \$2,000 or over.....	1,586	13,640		
	17" to 23" swing over the cross slide inclusive.....	526	6,075	1,026	9,976
	24" to 36" swing over the cross slide inclusive.....	107	4,302	252	7,831
	Over 36" swing over the cross slide.....	18	2,431	33	3,087
	Gap lathes.....	47	1,192	53	926
	All other manufacturing and tool room lathes.....	( <sup>4</sup> )	( <sup>4</sup> )	49	1,412
	Turret lathes (except vertical turret lathes, but including hand screw (bar) machines):				
	Ram type:				
	Up to and including 1".....	141	747	302	1,819
	Over 1".....	372	6,602	1,275	15,567
	Bench and floor light duty type, with turret attachment.....	( <sup>4</sup> )	( <sup>4</sup> )	879	3,133
	Saddle type.....	142	5,807	562	15,074
	Automatic chucking lathes:				
	Single spindle.....	304	9,639	812	16,116
	Multi-spindle.....	152	8,335	711	35,518
	Automatic between-center lathes.....	155	5,092	442	9,906
	Automatic screw (bar) machines.....	901	14,743	2,263	41,943
	All other lathes (including axle, crankshaft shell, boring and combination boring and turret lathes, etc.).....	<sup>4</sup> 1,614	<sup>4</sup> 10,891	447	12,781
	Lathes, nsk.....	xxx	1,707	xxx	778
3541610	Milling machines.....	11,004	89,315	xxx	122,518
	Bench and hand milling machines (industry knee type bench milling machines).	476	703	1,000	2,172
	Knee type milling machines (except bench type):				
	Horizontal plain.....	499	5,631	1,827	23,757
	Horizontal universal.....	201	2,812	741	9,505
	Vertical.....	5,799	14,762	5,078	17,857
	Bed type milling machines:				
	Single spindle.....	242	3,514	719	21,385
	Double spindle and special purpose.....	179	20,279	328	17,505
	Planer type milling machines.....	20	4,305	538	17,176
	Profiling machines and duplicators and die sinking machines.....	363	21,840		
	Thread milling machines.....	17	591		
	All other milling machines (including spline, routers, cam engraving) and ram-type swivel head milling machines.....	3,208	14,878	(NA)	9,258
	Milling machines, nsk.....	xxx	...	xxx	1,719
35418--	Other metal cutting type machine tools (except those designed for home workshops, laboratories, etc.).....	xxx	81,326	xxx	146,708
	Broaching machines:				
	Internal broaching machines, horizontal and vertical.....	47	898	230	3,285
	Surface broaching machines, single and double ram and rotary.....	32	2,050	243	13,968
	All other broaching machines.....	30	1,429		
	Centering machines.....	62	449	46	352
	Keyseating machines.....			236	612
	Planers:				
	Openside.....	67	3,607	82	4,695
	Double housing.....			56	6,283
	All other planers (plate, pit, etc.).....				

See footnotes at end of table.



## METALWORKING MACHINERY AND EQUIPMENT

35C-15

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3541---	Metal-cutting type machine tools--Continued				
	Metal-cutting type machine tools--Continued				
	As reported on Census Annual Form MA-35W <sup>1</sup> --Continued				
	Other metal cutting type machine tools (except those designed for home workshops, laboratories, etc.)--Continued				
	Shapers (except gear shapers):				
	Horizontal crank type:				
	Under 20" stroke.....	350	753	241	1,064
	20"-27" stroke (inclusive).....	96	899	323	2,196
	28" stroke and over.....			116	1,023
	All other shapers.....	49	654	111	1,409
	Sawing and cut-off machines (including light industrial types):				
	Abrasive cut-off saws:				
	Average value under \$1,000.....	942	506		
	Average value \$1,000 or over.....	425	1,020	926	632
	Power hack saws:				
	Average value under \$1,000.....	2,309	301		
	Average value \$1,000 or over.....	699	1,063	2,693	2,094
	Circular cold saws.....	39	353	87	1,119
	All other sawing and cut-off machines:				
	Average value under \$1,000.....	3,546	1,772		
	Average value \$1,000 or over.....	1,303	5,127	2,451	2,044
	Contour sawing and filing machines (including band saws):				
	Average value under \$1,000.....	1,936	516		
	Average value \$1,000 or over.....	2,362	4,434	5,615	5,218
	Tapping machines:				
	Average value under \$1,000.....	96	21		
	Average value \$1,000 or over.....	292	1,882	532	2,479
	Threading machines (except thread milling machines or thread grinding machines):				
	Pipe threading machines.....			663	979
	Other threading machines (including bolt threading).....	1,114	3,592	488	3,616
	Other metal cutting type machine tools <sup>2</sup> .....	xxx	50,000	xxx	93,640
35418 (part)	Other metal-cutting type machine tools (except those designed primarily for home workshops, etc.), nsk.....	xxx	1,394	xxx	6,293
35418 (part)	Machine tools designed primarily for home workshops, garages, etc. (metalworking and primarily metalworking only) (excluding power-driven hand tools).....	xxx	11,591	xxx	9,283
3541911	Parts for metal-cutting machine tools (sold separately).....	xxx	71,772	xxx	86,948
3541941	Rebuilt metal-cutting type machine tools.....	xxx	16,970	xxx	15,012
3541000	Machine tools, nsk.....	xxx	18,476	xxx	5,450
3542---	Metalworking machinery (except machine tools), total.....	xxx	289,478	xxx	437,804
	Metalworking machinery (except machine tools):				
	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	208,299	xxx	368,384
	As reported on Census Annual Form MA-35W, total <sup>1</sup> .....	xxx	191,453	xxx	xxx
3542210 35423 (part)	Metalworking presses (including forging and manual presses).....	xxx	76,501	xxx	217,369
	Mechanical:				
	Open inclinable gap type:				
	50 tons and under:				
	Average value under \$1,000.....	3,734	1,724		
	Average value \$1,000 or over.....	1,365	5,225	7,423	9,074
	51 tons and over.....	441	3,320	1,504	12,314
	End wheel type, including horn-fixed and adjustable type:				
	50 tons and under.....	196	193	406	1,880
	51 tons and over.....	11	102	289	8,537
	Vertical straight sided and arch frame, excluding knuckle joint (including cam and crank):				
	Single action:				
	Single point:				
	500 tons and under.....			341	7,615
	501 tons and over.....	106	2,278	75	9,315
	Two point:				
	500 tons and under.....			846	28,927
	501 tons and over.....	141	6,454	43	4,302
	Four point:				
	500 tons and under.....	11	1,039	141	10,774
	501 tons and over.....	20	3,482	151	19,771
	Double and triple action:				
	Single point.....			37	1,157
	Two and four point.....	31	6,331	99	17,626

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3542---	Metalworking machinery (except machine tools)--Continued				
	Metalworking machinery (except machine tools)--Continued				
	As reported on Census Annual Form MA-35W <sup>1</sup> --Continued				
3542210	Metalworking presses (including forging and manual presses)--Continued				
35423 (part)					
	Mechanical--Continued				
	High speed automatic type with feed (including multiple transfer):				
	50 tons and under.....	117	1,499	443	3,679
	51 tons to 200 tons.....	53	2,450	133	3,705
	201 tons and over.....	6	614	27	1,495
	Knuckle joint:				
	500 tons and under.....	21	717	49	1,340
	501 tons and over.....				
	Horizontal and gap or C-frame:				
	Average value under \$2,000.....	223	191	248	3,506
	Average value \$2,000 or over.....	105	1,574		
	Other mechanical presses (including bulldozers).....	1,930	7,072	<sup>e</sup> 1,975	<sup>e</sup> 10,359
	Hydraulic and pneumatic presses (metalworking only):				
	Vertical single action:				
	Housing or straight column type (4-piece frame):				
	500 tons and under:				
	Average value under \$1,000.....	1,064	477	1,209	7,039
	Average value \$1,000 or more.....	101	1,778		
	501 tons to 1,500 tons.....	12	753	71	6,356
	1,501 tons and over.....	4	1,650	27	7,325
	Open rod type:				
	500 tons and under.....	224	1,917	208	8,841
	501 tons to 1,500 tons.....	6	424		
	1,501 tons and over.....	8	2,085		
	Gap or C-frame type:				
	50 tons and under.....	1,741	3,652	1,956	4,707
	51 tons and over.....	96	1,388		
	Vertical double action (2 slide) type:				
	500 tons and under.....	14	847	19	1,256
	501 tons and over.....			(NA)	2,337
	Horizontal (except extrusion) type:				
	500 tons and under.....	43	523	113	4,392
	501 tons and over.....	10	2,101		
	Extrusion presses (all types).....	46	8,302	53	4,316
	Other hydraulic presses.....	164	4,993	2,224	11,977
	Manual presses (arbor, straightening, forcing, and assembly).....	5,482	525	(NA)	1,032
	Metalworking presses, including forging presses, nsk.....	xxx	821	xxx	2,415
3542310	Forging machines (except presses).....	644	17,387	xxx	24,412
	Hammers; steam, air and mechanical.....	88	1,623	236	5,956
	Forging rolls and swaging machines.....	196	1,007	384	1,581
	Headers and upsetters.....	360	14,757	370	14,691
	Other forging machinery, including bulldozers.....			<sup>e</sup> 183	<sup>e</sup> 2,009
	Forging machines (except presses), nsk.....	xxx	...	xxx	175
3542110	Punching and shearing machines (power and manual).....	9,549	31,967	xxx	26,349
	Manually operated.....	6,797	1,671	2,530	685
	Power:				
	Punches (including combination punching and shearing machines).....	728	4,408	693	2,967
	Plate shearing machines (squaring, slitting, etc.).....	1,345	13,732	1,460	13,152
	Bar and angle shearing machines.....	84	993	108	1,275
	Rotary shearing machines.....	281	2,544	491	4,807
	Other power punching and shearing machines.....	314	4,482	1,258	3,285
	Punching and shearing machines, nsk.....	xxx	317	xxx	178
3542120	Bending and forming machines (power and manual).....	xxx	32,127	xxx	35,573
	Power:				
	Bending rolls, sheet and plate.....	545	4,089	532	3,623
	Bending rolls, angles, bars and shapes (including light industrial types).....	131	1,160	94	858
	Bending brakes and folders.....	905	8,783	1,449	9,407
	Rotary bending and forming machines.....	2,394	3,700	2,509	2,670
	Rotary lead and ram bending machines (pipe, bar, etc.).....	566	2,640	300	2,552
	Other power bending and forming machines.....	1,011	6,589	xxx	12,718
	Manually operated (hand or foot):				
	Bending brakes and folders.....	5,589	2,314	5,936	1,839
	Rotary bending and forming machines.....	5,813	722	2,881	465
	Other bending and forming machines (manual).....	1,784	406	1,173	167
	Bending and forming machines, nsk.....	xxx	1,724	xxx	1,274

See footnotes at end of table.



## 35C-17

**Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued**

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3542---	Metalworking machinery (except machine tools)--Continued				
	Metalworking machinery--Continued				
	As reported on Census Annual Form MA-35W <sup>1</sup> --Continued				
35423 (part)	Other metalworking machinery.....	xxx	33,471	xxx	64,681
3542311	Riveting machines (except hand held portable types):				
	Average value under \$1,000.....	2,789	2,222	3,067	3,616
	Average value \$1,000 or over.....	1,183	2,798		
3542322	Metal container making machines:				
	Can.....	816	18,625	2,109 (NA)	19,563
	Barrel, drum, and other.....				
3542331	Die casting machines.....	170	6,188	340	7,870
3542333	Thread rolling machines.....	135	1,749		
3542335	Spinning lathes.....	113	165	xxx	31,756
3542398	Other metal forming type machine tools (include marking machines, knurling machines, etc.).....	1,262	1,724		
3542475	Rebuilt metalworking type machine tools.....	xxx	2,038	xxx	448
3542411	Parts for metalworking type machine tools (except parts for electric and pneumatic power-driven hand tools).....	xxx	76,152	xxx	65,581
3542000	Metalworking machinery, nsk.....	xxx	2,989	xxx	3,391
		Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
3544---	Special dies and tools, die sets, jigs and fixtures, and industrial molds, total...		1,332,393		1,181,461
35441--	Special dies and tools, die sets, jigs and fixtures.....		1,157,343		1,082,828
3544112	Jigs and fixtures, all types.....		291,819	}	916,415
3544121	Press dies (except forging and extrusion dies).....		339,689		
3544161	All other dies, including extrusion dies.....		61,235		
3544171	Components for jigs, fixtures, and dies, including die sets.....		36,282		
3544181	Special gages or checking fixtures.....		29,889		
3544191	Other specially designed tooling, prototypes, and models.....		74,716		
3544131	Forging dies.....		25,428		21,140
3544151	Die-casting dies.....		44,991		32,486
3544100	Special dies and tools, die sets, jigs and fixtures, nsk.....		253,294		112,787
35442--	Industrial molds <sup>7</sup> .....		175,050		98,633
	Industrial molds, metal:				
3544213	For casting metals (foundry molds, except ingot molds).....		29,425		<sup>a</sup> 10,232
3544233	For molding rubber products, including tire molds.....		24,987		<sup>a</sup> 17,836
3544253	For molding plastics.....		60,174		<sup>a</sup> 42,055
3544259	Other.....		24,001		<sup>a</sup> 13,673
3544263	Industrial molds, except metal.....		4,288		(NA)
3544200	Industrial molds, nsk.....		32,175		14,837
3545---	Attachments and accessories for machine tools and metalworking equipment, total....		470,197		541,031
35451--	Small cutting tools for machine tools and metalworking equipment.....		301,209		291,042
3545112	Broaches.....		13,385		13,443
	Drills:				
3545121	Carbon steel.....		4,219		5,172
3545123	High-speed steel.....		45,515		41,468
3545125	Carbide, solid and tipped (including tips sold separately but excluding blanks)		5,631		<sup>a</sup> 6,807
	Reamers:				
3545131	Carbon steel.....		3,712		3,584
3545133	High-speed steel.....		13,457		10,401
3545135	Carbide tipped (including tips sold separately but excluding blanks).....		5,042		<sup>a</sup> 5,881
	Gear hobs:				
3545141	Unground.....		3,758		3,502
3545145	Ground.....		3,607		3,592
	Gear cutters, other than hobbing:				
3545151	Carbon steel.....	}	11,908	{	7,330
3545154	High-speed steel and carbide tipped (including tips sold separately but excluding blanks).....				<sup>a</sup> 9,477
	Milling cutters:				
3545158	Form relieved cutters (including multiple thread-milling cutters).....		3,235		3,962
3545163	Solid-end mills.....		11,924		11,135
	Inserted blade cutters (including blades sold separately):				
3545164	High-speed steel.....		4,330		4,891
3545165	Carbide tipped (including tips sold separately but excluding blanks).....		8,569		<sup>a</sup> 10,735
	Other solid-milling cutters:				
3545166	High-speed steel.....		9,054		8,179
3545167	Carbide tipped (including tips sold separately but excluding blanks).....		3,266		<sup>a</sup> 3,544

See footnotes at end of table.

Table 6A—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
3545---	Attachments and accessories for machine tools and metalworking equipment--Continued				
35451--	Small cutting tools for machine tools and metalworking equipment--Continued				
	Turning, planer, and shaper tools:				
	Form tools:				
3545171	High-speed steel.....		4,369		6,167
3545173	Carbide tipped (including tips sold separately but excluding blanks).....		15,565		16,812
3545176	Other turning, planer, and shaper tools (including tips sold separately but excluding blanks).....		3,480		8,807
	Threading tools and dies:				
3545178	Ground thread taps.....		23,114		15,721
3545179	Cut thread taps.....		5,647		7,431
3545184	Dies.....		7,381		7,282
3545185	Chasers (excluding dieheads and tap bodies).....		8,279		10,409
3545189	Other threading tools and dies (including pipe-stocks).....		5,508		1,913
3545128	Countersinks and counter bores.....		6,889		
	Other cutting tools for machine tools and metalworking machinery:				
3545191	Carbon steel.....		2,566		47,413
3545193	High-speed steel.....		9,642		
3545195	Carbide, solid and tipped (including tips sold separately but excluding blanks)		23,229		
3545196	Carbide blanks.....		10,297		
3545100	Small cutting tools for machine tools, not specified by type.....		24,631		15,984
35452--	Machinist's precision tools.....		60,871		110,033
3545211	Comparators.....		7,191		4,517
	Fixed size limit gages (American Gage Design type-C-S8-51):				
3545213	Fixture type.....		3,895		
3545215	Thread type.....		6,078		62,180
3545217	Adjustable size limit gages.....		1,810		
3545221	Gage blocks.....		1,967		1,890
3545261	Dial indicators.....		4,658		7,198
3545298	Other machinist's precision tools (including micrometers, calipers and dividers).....		27,116		27,420
3545200	Precision measuring tools, nsk.....		8,156		6,828
35453--	Other attachment and accessories for machine tools and metalworking machinery....		96,168		139,956
	Chucks:				
3545311	Drill.....		7,099		4,366
3545313	Lathe.....		5,266		8,211
3545315	Other chucks (including dieheads and tap bodies).....		2,465		6,382
3545321	Chuck holding devices (feeding fingers and collets, sleeves, sockets, drillheads, etc.).....		11,547		16,096
3545331	Tools for screw and automatic machines (box tools, hollow drills, work and tool holders, etc.) (except taps and dies).....		4,899		10,123
3545341	Other accessories and attachments for machine tools and metalworking machinery (except small cutting tools).....		48,757		69,743
3545351	Tool room specialties (including levels, angle irons, plates, squares, sine bars, V-blocks, flats, vises, etc.).....		7,099		10,740
3545300	Attachments and accessories for machine tools, and metalworking machinery, nsk..		9,036		14,295
3545000	Metalworking machinery attachments, nsk.....		11,949		...
		Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3548---	Metalworking machinery, nec, total.....	xxx	580,161	xxx	399,493
35481--	Rolling mill machinery and equipment.....	xxx	252,164	xxx	143,512
3548115	Hot rolling mill machinery, except tube rolling.....	xxx	88,427		
3548125	Cold rolling mill machinery.....	xxx	36,222		
3548135	Tube mill machinery.....	xxx	13,394	xxx	143,512
3548155	Other.....	xxx	114,121		
35482--	Power-driven hand tools, including parts and attachments <sup>10</sup> .....	xxx	210,628	xxx	170,460
	Portable power-driven hand tools (power-driven hand tools which are controlled by hand and the position of which in operation need not be fixed) (including high cycle):				
	Electric:				
	Drills:				
3548211	3/8 inch chuck size and smaller.....	1,512,312	25,523	1,278,838	26,826
3548212	1/2 inch and larger.....	245,307	8,890	277,421	11,188
3548221	Saws (except chain saws).....	1,461,944	35,053	586,197	22,681
3548223	Disc sanders.....	428,955	6,571	137,531	5,206
3548226	Other electric, power-driven hand tools (including grinders, hammers, screw drivers and nut runners, portable polishers, riveters, refacers, etc.).....	xxx	22,849	xxx	27,554
3548228	Parts, attachments, and accessories for electric hand tools (sold separately).....	xxx	30,143	xxx	(11)

See footnotes at end of table.



## METALWORKING MACHINERY AND EQUIPMENT

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Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3548---	Metalworking machinery, nec--Continued				
35482--	Power-driven hand tools, including parts and attachments <sup>10</sup> --Continued				
	Portable power-driven hand tools (power-driven hand tools which are controlled by hand and the position of which in operation need not be fixed) (include high cycle)--Continued				
	Pneumatic:				
3548232	Drills.....	26,497	5,684	xxx	8,669
3548248	Other pneumatic power-driven hand tools (including saws, except chain saws, disc sanders, grinders, hammers, screw drivers and nut runners, portable polishers, riveters, refacers, etc.).....	xxx	33,449	xxx	19,240
3548251	Parts, attachments, and accessories for pneumatic hand tools (sold separately).....	xxx	26,133	xxx	<sup>11</sup> 43,259
3548261	Powder-actuated hand tools.....	150,443	4,239	xxx	1,913
3548200	Power driven hand tools, nsk.....	xxx	12,094	xxx	3,924
35483--	Acetylene welding and cutting apparatus.....	xxx	38,088	xxx	26,822
	Welding and cutting apparatus, except electric:				
3548321	Oxygen-acetylene generating equipment.....	855	9,871	xxx	26,822
3548331	All other welding and cutting apparatus (including machine, and hand-cutting and welding equipment).....	16,600	25,835		
3548300	Acetylene welding and cutting apparatus, nsk.....	xxx	2,382	xxx	...
3548411	Automotive maintenance equipment (such as motor analyzers, wheel balancers, spark plug cleaners, wheel spinners, frame straighteners, etc.).....	xxx	44,183	xxx	44,088
35485--	Other metalworking machinery, except machine tools, nec.....	xxx	17,627	xxx	14,611
3548545	Drawing machines, draw benches and machines for weaving wire and other wire fabricating:				
	As reported on the Census of Manufactures <sup>1</sup> .....	xxx	17,627	xxx	14,611
	As reported on Census Annual Form MA-35W <sup>1</sup> .....	xxx	17,520	xxx	xxx
3548000	Other metalworking machinery, nec, nsk.....	xxx	17,471	xxx	...

NA Not available. <sup>F</sup>Revised.

<sup>1</sup>For these products, data for 1958 were also collected on Census Annual Form MA-35W. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual Form MA-35W. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to not more than 5 percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year).
- Use of different bases for reporting value (company sales vs. factory production).
- Inclusion in the Census of Manufactures of reports for manufacturers producing not only parts and attachments for replacement and repair, but also parts and attachments sold to other manufacturers. Data for the latter items would normally be excluded from the annual survey.
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35W will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

<sup>2</sup>Included with "All other drilling machines."<sup>3</sup>Included with "All other grinding machines."<sup>4</sup>Included with "All other lathes."

<sup>5</sup>Includes slotting machines (except screw and nut slotters); rifle-working machines; chamfering machines; facing machines; automatic roller cut-off machines; special axle-end facing machines; and other specially designed machine tools involving combinations of two or more processes, such as boring, reaming, drilling, facing, turning, and counterboring.

<sup>6</sup>Bulldozers are included with "Other forging machinery."<sup>7</sup>Excludes production of industrial molds made and used in the same establishment.<sup>8</sup>Represents metal industrial molds and industrial molds made of materials other than metal.<sup>9</sup>Includes blanks.<sup>10</sup>Includes tools which are controlled by hand and the position of which in operation need not be fixed.<sup>11</sup>Figures for parts, attachments, and accessories for electric hand tools are included with those for pneumatic hand tools.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<b>Boring machines (35411):</b>			<b>Lathes (35415)--Continued</b>	1958 <sup>1</sup>	1954	<b>Parts for metal cutting type machine tools (35419)--Continued</b>	1958 <sup>1</sup>	
United States, total:			Middle Atlantic.....	10,202	12,524	East North Central.....	52,422	
1958.....	52,791		New York.....	9,215	( <sup>3</sup> )	Ohio.....	24,536	
1957.....	101,723		East North Central.....	66,773	116,153	Indiana.....	2,447	
1956.....	101,838		Ohio.....	48,111	86,151	Illinois.....	7,585	
1955.....	77,372		Illinois.....	6,610	9,153	Michigan.....	9,496	
1954.....	114,443					Wisconsin.....	8,358	
1953.....	163,648		<b>Milling machines (35416):</b>	Value of shipments		West North Central.....	1,676	
1952.....	152,341		United States, total:			<b>Punching, shearing, bending, and forming machines (35421):</b>		
1951.....	75,068		1958.....	89,406		United States, total.....	68,443	
1950.....	28,849		1957.....	154,628		New England.....	5,938	
1949.....	29,430		1956.....	115,817		Connecticut.....	5,484	
1947.....	25,825		1955.....	89,375		Middle Atlantic.....	12,732	
	1958 <sup>1</sup>	1954	1954.....	121,494		New York.....	8,801	
Northeast.....	16,652	47,254	1953.....	192,194		New Jersey.....	1,065	
Connecticut.....	10,015	( <sup>2</sup> )	1952.....	159,331		Pennsylvania.....	2,866	
East North Central.....	36,139	66,208	1951.....	70,257		East North Central.....	41,657	
Ohio.....	11,949	20,469	1950.....	35,827		Ohio.....	20,110	
Illinois.....	2,538	( <sup>3</sup> )	1949.....	31,400		Illinois.....	15,235	
			1947.....	35,278		Michigan.....	2,878	
<b>Grinding and polishing machines (35414):</b>	Value of shipments			1958 <sup>1</sup>	1954	West North Central.....	3,212	
United States, total:			Northeast.....	17,434	23,817	Missouri.....	1,300	
1958.....	91,430		New York.....	3,111	5,024	South.....	3,195	
1957.....	157,761		East North Central.....	70,434	95,629	West.....	1,709	
1956.....	172,803		Illinois.....	15,925	( <sup>3</sup> )	California.....	1,593	
1955.....	123,899		Wisconsin.....	20,895	28,837	<b>Presses, including forging presses (35422):</b>	Value of shipments	
1954.....	154,396					United States, total:		
1953.....	219,287		<b>Other machine tools (35418):</b>	1958 <sup>1</sup>		1958.....	79,065	
1952.....	210,124		United States, total.....	98,270		1957.....	240,851	
1951.....	120,833		New England.....	11,572		1956.....	240,159	
1950.....	60,557		Massachusetts.....	5,547		1955.....	170,796	
1949.....	45,660		Middle Atlantic.....	8,037		1954.....	217,369	
1947.....	56,364		New York.....	4,219		1953.....	181,010	
	1958 <sup>1</sup>	1954	New Jersey.....	1,373		1952.....	155,374	
New England.....	30,595	49,601	Pennsylvania.....	2,445		1951.....	123,001	
Massachusetts.....	20,351	29,874	East North Central.....	68,626		1947.....	97,855	
Connecticut.....	3,268	( <sup>3</sup> )	Ohio.....	15,500			1958 <sup>1</sup>	1954
Middle Atlantic.....	12,388	( <sup>3</sup> )	Indiana.....	1,321		New England.....	3,401	( <sup>2</sup> )
New York.....	3,985	( <sup>3</sup> )	Illinois.....	21,141		Middle Atlantic.....	17,281	( <sup>2</sup> )
East North Central.....	44,223	75,789	Michigan.....	25,112		New York.....	14,483	( <sup>2</sup> )
Ohio.....	22,410	36,353	Wisconsin.....	5,552		New Jersey.....	1,438	( <sup>2</sup> )
Illinois.....	10,153	14,326	West North Central.....	5,509		Pennsylvania.....	1,360	( <sup>2</sup> )
Michigan.....	10,902	23,455	All other regions.....	4,526		East North Central.....	53,896	170,848
West North Central.....	2,809	( <sup>2</sup> )	California.....	2,288		Ohio.....	19,740	82,753
			<b>Parts for metal cutting type machine tools (35419):</b>	88,742		Indiana.....	1,105	( <sup>3</sup> )
<b>Lathes (35415):</b>	Value of shipments		United States, total.....			Illinois.....	27,945	70,401
United States, total:			New England.....	25,553		West North Central.....	915	3,145
1958.....	98,599		Vermont.....	4,445		Minnesota.....	( <sup>3</sup> )	1,922
1957.....	196,448		Massachusetts.....	9,079		Pacific.....	2,370	1,054
1956.....	217,054		Connecticut.....	6,889		California.....	2,370	( <sup>3</sup> )
1955.....	153,285		Middle Atlantic.....	8,030				
1954.....	206,886		New York.....	5,152				
1953.....	312,165							
1952.....	281,587							
1951.....	170,528							
1950.....	79,476							
1949.....	62,289							
1947.....	92,908							
	1958 <sup>1</sup>	1954						
New England.....	20,994	74,479						
Massachusetts.....	1,031	1,107						
Connecticut.....	9,754	( <sup>3</sup> )						

See footnotes at end of table.



## METALWORKING MACHINERY AND EQUIPMENT

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Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954
<b>Other metal forming machines (35423):</b>								
United States, total.....	60,791		Special dies and tools, die sets, jigs, and fixtures (35441)--Continued			Small cutting tools for machine tools and metalworking machinery (35451)--Continued		
New England.....	9,609		South Atlantic.....	17,368	6,106	Middle Atlantic.....	37,232	36,968
Connecticut.....	8,142		Maryland.....	7,480	2,716	New York.....	8,847	9,287
Middle Atlantic.....	12,225		Georgia.....	2,767	(2)	New Jersey.....	4,325	2,875
New York.....	5,638		Florida.....	4,294	1,208	Pennsylvania.....	24,060	24,806
New Jersey.....	5,708		East South Central.....	7,128	3,689	East North Central.....	178,083	176,666
Pennsylvania.....	2,879		Tennessee.....	4,017	1,890	Ohio.....	39,995	38,606
North Central.....	33,079		Alabama.....	1,775	(2)	Indiana.....	1,358	1,576
Ohio.....	21,831		West South Central.....	6,623	4,432	Illinois.....	35,708	32,381
Illinois.....	5,325		Texas.....	5,135	3,037	Michigan.....	98,605	100,797
Michigan.....	3,816		Mountain.....	4,595	(2)	Wisconsin.....	2,417	3,306
All other regions.....	5,878		Arizona.....	3,822	(2)	West North Central.....	2,471	(2)
California.....	3,308		Pacific.....	54,018	51,833	South Central.....	4,711	(2)
<b>Parts for metal forming machine tools (35424):</b>								
United States, total.....	78,190		California.....	52,711	51,055	All other regions.....	7,460	4,240
New England.....	8,131		Value of shipments			California.....	7,052	(2)
Massachusetts.....	1,259		Industrial molds (35442):			Precision measuring tools (35452):		
Connecticut.....	6,392		United States, total:			United States, total:		
Middle Atlantic.....	17,718		1958.....	175,050		1958.....	60,871	
New York.....	7,044		1957.....	134,827		1957.....	131,889	
New Jersey.....	3,216		1956.....	130,119		1956.....	136,887	
Pennsylvania.....	7,458		1955.....	106,675		1955.....	112,553	
East North Central.....	42,817		1954.....	98,633		1954.....	110,033	
Ohio.....	28,466					1953.....	123,148	
Illinois.....	10,674					1952.....	128,013	
Michigan.....	2,980					1951.....	85,669	
West North Central.....	2,507					1950.....	43,333	
Minnesota.....	1,045					1947.....	36,421	
All other regions.....	7,017							
California.....	3,103							
<b>Special dies and tools, die sets, jigs, and fixtures (35441):</b>								
United States, total:								
1958.....	1,157,343							
1954.....	1,082,828							
	1958 <sup>1</sup>	1954						
New England.....	64,134	65,877						
Massachusetts.....	25,702	25,661						
Rhode Island.....	7,815	5,184						
Connecticut.....	27,684	30,524						
Middle Atlantic.....	179,918	179,871						
New York.....	65,639	63,097						
New Jersey.....	40,883	44,497						
Pennsylvania.....	73,336	72,276						
East North Central.....	800,480	748,575						
Ohio.....	176,362	150,085						
Indiana.....	53,792	44,467						
Illinois.....	101,303	71,324						
Michigan.....	437,333	454,210						
Wisconsin.....	31,690	28,489						
West North Central.....	23,079	21,660						
Minnesota.....	6,648	4,619						
Iowa.....	4,372	3,416						
Missouri.....	9,610	7,818						
<b>Small cutting tools for machine tools and metalworking machinery (35451):</b>								
United States, total:								
1958.....	301,209							
1957.....	406,056							
1956.....	403,391							
1955.....	369,490							
1954.....	291,042							
1953.....	473,326							
1952.....	449,930							
1951.....	430,566							
1950.....	262,629							
1947.....	204,778							
	1958 <sup>1</sup>	1954						
New England.....	71,252	68,736						
Vermont.....	9,151	9,306						
Massachusetts.....	41,037	39,095						
Connecticut.....	14,544	14,646						
<b>Other attachments and accessories for machine tools and metalworking machinery (35453):</b>								
United States, total:								
1958.....	96,168							
1954.....	139,956							
1953.....	141,819							
1952.....	142,819							
1951.....	125,259							
1950.....	75,229							
1947.....	85,224							
	1958 <sup>1</sup>	1954						
New England.....	24,493	35,306						
Rhode Island.....	6,739	(2)						
Connecticut.....	15,126	18,265						
Middle Atlantic.....	9,201	14,356						
New York.....	6,317	8,782						
New Jersey.....	1,264	1,594						
Pennsylvania.....	1,620	3,978						

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years-Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
Other attachments and accessories for machine tools and metalworking machinery (35453)--Continued	1958 <sup>1</sup>	1954	Rolling mill machinery and equipment (35481)--Continued			Power-driven hand tools, including parts and attachments (35482):		
North Central.....	59,835	80,593	United States, total--Continued			United States, total:....		
Ohio.....	15,071	22,200	1954.....	143,512		1958.....		210,628
Illinois.....	15,472	16,245	1955.....	182,921		1957.....		223,215
Michigan.....	14,556	31,094	1952.....	185,331		1956.....		226,290
			1951.....	157,504		1955.....		200,710
			1947.....	96,074		1954.....		170,460
All other regions.....	2,639	( <sup>3</sup> )				1953.....		155,895
California.....	1,808	( <sup>3</sup> )	New England.....	19,664	11,725	1952.....		157,153
			Middle Atlantic.....	127,314	84,004	1951.....		153,666
			New York.....	1,571	( <sup>3</sup> )	1947.....		112,198
Rolling mill machinery and equipment (35481):	Value of shipments		Pennsylvania.....	125,740	( <sup>2</sup> )		1958 <sup>1</sup>	1954
United States, total:			East North Central.....	85,913	42,193	New England.....	13,484	8,290
1958.....	252,164		Ohio.....	72,245	( <sup>3</sup> )	Middle Atlantic.....	54,879	47,271
1957.....	267,183					North Central.....	108,429	80,758
1956.....	195,810					Ohio.....	17,877	17,889
1955.....	146,905					Illinois.....	59,777	47,819
						Michigan.....	15,260	8,963
						Wisconsin.....	9,491	( <sup>3</sup> )
						All other regions.....	33,836	3,507

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 35411, Massachusetts, New York, Michigan, and Wisconsin; 35414, Vermont, Rhode Island, Pennsylvania, and Minnesota; 35415, Vermont, Rhode Island, Indiana, Michigan, and Wisconsin; 35416, Massachusetts, Connecticut, Ohio, and Michigan; 35418, New Hampshire, Connecticut, Minnesota, and Maryland; 35419, Maine, Rhode Island, and Pennsylvania; 35421, Indiana, Minnesota, and North Carolina; 35422, Connecticut, Michigan, and Texas; 35423, Massachusetts, Minnesota, and Maryland; 35424, Washington; 35441, Vermont, Kansas, and Kentucky; 35442, Georgia; 35451, New Hampshire, Rhode Island, Minnesota, Kentucky, and Arkansas; 35452, Vermont, Rhode Island, and Ohio; 35453, Massachusetts, Indiana, Wisconsin, and Missouri; 35481, Massachusetts, Connecticut, Indiana, Michigan, Delaware, West Virginia, and Alabama; 35482, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Iowa, Maryland, Texas, and California.

<sup>2</sup>Shipments of less than \$1 million reported.

<sup>3</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



Table 7—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954		1958			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)		
			INDUSTRY 3541—METAL-CUTTING MACHINE TOOLS				INDUSTRY 3542—METAL-FORMING MACHINE TOOLS			
	Materials, parts, containers and supplies, total.....		xxx	192,497	xxx	312,900	xxxx	111,608		
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	S. tons...	16,937	4,551	34,119	8,115	15,159	3,602		
331212	Sheet and strip.....	...do....	3,655	645	6,163	961	2,655	564		
331213	Plates.....	...do....	9,535	1,575	11,895	2,260	55,290	7,903		
331215	Structural shapes.....	...do....	2,165	624	5,411	1,189	1,885	387		
331217	Wire and wire products.....	...do....	1,720	654	6,377	1,832	2,291	810		
331219	All other carbon steel mill shapes and forms.....	...do....								
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	...do....	11,370	4,514	17,125	6,707	3,289	1,839		
331225	All other alloy steel mill shapes and forms.....	...do....	1,488	774	5,509	2,349	291	183		
331231	Stainless steel mill shapes and forms.....	...do....	403	644	445	688	159	246		
363111	Copper and copper-base alloy:									
	Insulated wire and cable.....	1,000 lbs. metal content..	403	402	2,668	1,605	47	56		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	576	420			151	105		
	Aluminum and aluminum-base alloy mill shapes and forms:									
335257	Sheet, plate and foil.....	...do....	580	348	1,186	601	373	220		
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)....	...do....	214	148						
	Primary metals and scrap:									
331251	Pig iron.....	S. tons...	8,284	554	18,929	1,089	5,801	392		
941011	Iron and steel scrap (excluding home scrap).....	...do....	7,967	348	30,642	1,308	10,513	469		
	Castings (rough and semifinished, received from foundry):									
332011	Iron (gray and malleable).....	...do....	164,015	23,620	166,324	52,401	330,032	9,984		
332311	Steel.....	...do....	1,748	1,323	6,879	4,015	15,235	8,132		
336121	Copper and copper-base alloy.....	1,000 lbs.	1,558	1,278	3,832	2,747	1,589	1,221		
336111	Aluminum and aluminum-base alloy.....	...do....	1,650	1,333	1,912	1,707	273	332		
339111	Iron and steel forgings.....	S. tons...	4,723	3,245	(NA)	(NA)	5,156	3,172		
	Fractional horsepower electric motors (under 1 hp.):									
361412	Timing motors, synchronous and subsynchronous.....	Number....	19,402	905	(NA)	3,106	(NA)	226		
361419	All other fractional horsepower electric motors.....	...do....	34,183	1,404	(NA)		14,117	762		
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	...do....	40,240	8,106	62,000	14,375	12,031	4,688		
359311	Ball and roller bearings.....	...do....	...	6,260	...	8,325	...	1,588		
970099	All other materials and components, parts, containers and supplies consumed.....	...do....	...	112,700	...	197,520	...	58,204		
973000	Materials, parts, containers and supplies, nsk.....	...do....	...	216,122	xxx	xxx	xxx	26,523		
			1958		1958		1954			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)		
			INDUSTRY 3544—SPECIAL DIES AND TOOLS		INDUSTRY 3545—METALWORKING MACHINERY ACCESSORIES					
	Materials, parts, containers and supplies, total.....		xxx	217,315	xxx	114,880	xxx	108,432		
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	S. tons...	32,137	12,523	18,738	5,467	15,258	4,771		
331212	Sheet and strip.....	...do....	21,286	4,089	991	367	2,275	1,141		
331213	Plates.....	...do....	41,677	8,904	2,697	653	1,670	302		
331217	Wire and wire products.....	...do....	314	195	205	118	5,517	1,624		
331215	Structural shapes.....	...do....	3,324	968	2,311	710				
331219	All other carbon steel mill shapes and forms.....	...do....	4,012	1,919						
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	...do....	11,561	11,139	10,744	19,452	21,895	18,820		
331225	All other alloy steel mill shapes and forms.....	...do....	4,077	2,220	1,941	3,551	4,294	6,198		
331231	Stainless steel mill shapes and forms.....	...do....	868	1,408	170	235				
	Copper and copper-base alloy:									
335111	Bare wire for electrical conduction only.....	1,000 lbs.	155	154	130	79	932	597		
363111	Insulated wire and cable.....	1,000 lbs. metal content..	(D)	(D)						
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	2,041	1,191	210	255				

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3544—SPECIAL DIES AND TOOLS—Continued		INDUSTRY 3545—METALWORKING ACCESSORIES—Continued			
	Mill shapes and forms (except castings)—Continued							
	Aluminum and aluminum-base alloy mill shapes and forms:							
335257	Sheet, plate and foil.....	1,000 lbs.	2,124	1,404	161	165	(NA)	(NA)
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)....	....do....	486	310	109	93	(NA)	(NA)
	Primary metals and scrap:							
331251	Pig iron.....	S. tons...	39,432	2,495	2,783	214	(NA)	(NA)
941011	Iron and steel scrap (excluding home scrap).....	....do....	(D)	(D)	628	27	(NA)	(NA)
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	....do....	32,642	12,487	5,956	2,426	7,459	2,697
332311	Steel.....	....do....	4,086	2,441	503	375	927	773
336121	Copper and copper-base alloy.....	1,000 lbs.	743	583	135	141	321	314
336111	Aluminum and aluminum-base alloy.....	....do....	1,044	714	1,239	1,204	798	821
339111	Iron and steel forgings.....	S. tons...	1,501	1,557	1,076	1,137	(NA)	(NA)
	Fractional horsepower electric motors (under 1 hp.):							
361412	Timing motors, synchronous and subsynchronous.....	Number....	(NA)	94	{	5,877	165	(NA)
361419	All other fractional horsepower electric motors.....	....do....	(NA)			7,212	226	(NA)
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	....do....	881	172	2,787	355	(NA)	(NA)
359311	Ball and roller bearings.....	.....	...	(D)	...	560	...	240
970099	All other materials and components, parts, containers and supplies consumed.....	.....	...	77,372	...	65,556	...	61,897
973000	Materials, parts, containers and supplies, nsk.....	.....	xxx	272,978	xxx	211,349	...	8,237

Code	Material	Unit of measure	1958		Code	Material	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)				Quantity	Delivered cost (\$1,000)
			INDUSTRY 3548—METALWORKING MACHINERY, NEC					INDUSTRY 3548—METALWORKING MACHINERY, NEC—Con.	
	Materials, parts, containers, and supplies, total.....	.....	xxx	198,035	331251	Primary metals and scrap:			
	Mill shapes and forms (except castings):				941011	Pig iron.....	S. tons...	15,338	959
	Carbon steel:					Iron and steel scrap (excluding home scrap).....	....do....	52,171	2,147
331211	Bars and bar shapes.....	S. tons...	16,714	3,950		Castings (rough and semifinished, received from foundry):			
331212	Sheet and strip.....	....do....	8,667	1,748		Iron (gray and malleable).....	....do....	11,520	4,479
331213	Plates.....	....do....	40,412	5,579	332011	Steel.....	....do....	17,574	8,918
331215	Structural shapes.....	....do....	10,190	1,694	332311	Copper and copper-base alloy..	1,000 lbs.	2,723	2,307
331217	Wire and wire products.....	....do....	496	381	336121	Aluminum and aluminum-base alloy.....	....do....	9,536	8,142
331219	All other carbon steel mill shapes and forms.....	....do....	14,701	2,111	336111	Iron and steel forgings.....	S. tons...	6,572	4,027
331221	Alloy steel (except stainless):					Fractional horsepower electric motors (under 1 hp.):			
331225	Bars and bar shapes.....	....do....	6,677	2,981	361412	Timing motors, synchronous and subsynchronous.....	Number....	948,432	6,160
331231	All other alloy steel mill shapes and forms.....	....do....	1,525	633	361419	All other fractional horsepower electric motors...	....do....		
331231	Stainless steel mill shapes and forms.....	....do....	113	159	361431	Integral horsepower electric motors and generators (1 horsepower and over).....	....do....	3,585	1,257
335111	Copper and copper-base alloy:				359311	Ball and roller bearings.....	.....	...	5,576
	Bare wire for electrical conduction only.....	1,000 lbs.	1,258	715	970099	All other materials and components, parts, containers and supplies consumed.....	.....	...	127,070
363111	Insulated wire and cable....	1,000 lbs. metal content..	1,858	1,624	973000	Materials, parts, containers and supplies, nsk.....	.....	xxx	2,054
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)	1,000 lbs.	4,565	2,663					
335257	Aluminum and aluminum-base alloy mill shapes and forms:								
335259	Sheet, plate and foil.....	....do....	360	314					
	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	....do....	527	387					

D Withheld to avoid disclosing of figures for individual companies. NA Not available. <sup>1</sup>In addition, 14841 short tons of iron castings were produced and consumed at the same establishment. <sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms". <sup>3</sup>In addition, 10,541 short tons of iron castings were produced and consumed at the same establishment.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3541	METAL-CUTTING MACHINE TOOLS (entire industry).....	627	52,864	300,344	36,154	69,616	182,171	420,961	217,738	679,836	18,840
	Establishments with:										
	90% or more specialization.....	431	24,338	137,151	16,495	31,640	83,058	202,177	111,177	330,325	9,055
	75-89% specialization.....	49	14,387	81,225	9,907	19,084	48,630	113,497	55,950	187,635	6,436
35411	Boring machines (primary product class of estab.).....	20	4,299	27,019	2,980	6,174	17,608	38,638	20,793	64,577	1,920
35412	Drilling machines (primary product class of estab.).....	34	3,002	17,874	2,073	4,145	10,877	26,138	12,959	41,590	629
	Establishments with:										
	90% or more specialization....	11	606	3,385	424	828	2,110	5,283	3,070	8,599	( <sup>1</sup> )
	75-89% specialization.....	3	157	885	115	219	520	1,954	794	2,598	( <sup>1</sup> )
35413	Gear cutting and finishing machines (primary product class of estab.)..	13	4,476	25,122	3,376	6,326	16,923	28,106	11,398	40,440	980
	Establishments with:										
	90% or more specialization....	6	50	327	33	65	190	351	125	462	( <sup>1</sup> )
35414	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines) (primary product class of estab.).....	94	8,292	44,357	5,381	10,090	24,958	65,883	27,905	100,014	2,105
	Establishments with:										
	90% or more specialization....	48	659	3,249	545	1,013	2,658	5,138	2,973	8,842	( <sup>1</sup> )
	75-89% specialization.....	12	2,461	12,073	1,687	2,903	6,947	19,527	7,291	28,502	502
35415	Lathes (primary product class of estab.).....	51	12,193	67,640	7,736	14,168	38,191	103,987	44,678	156,406	5,761
35416	Milling machines (primary product class of estab.).....	21	9,808	55,055	6,942	13,531	34,130	75,229	45,807	127,314	4,482
	Establishments with:										
	90% or more specialization....	5	733	4,655	595	1,172	3,431	9,947	5,487	15,624	( <sup>1</sup> )
35418	Other machine tools (including those designed primarily for home workshops, laboratories, etc.) (primary product class of estab.)..	112	7,247	44,642	5,044	9,947	26,907	55,651	35,654	102,926	1,602
	Establishments with:										
	90% or more specialization....	64	1,650	10,214	1,179	2,314	6,599	15,801	8,377	24,719	500
	75-89% specialization.....	8	1,456	8,480	975	1,982	5,308	14,383	6,342	22,381	( <sup>1</sup> )
35419	Parts for metal cutting type machine tools, sold separately, and rebuilt machine tools (primary product class of estab.).....	50	1,745	9,743	1,206	2,642	5,871	11,893	10,164	22,764	352
	Establishments with:										
	90% or more specialization....	31	741	3,996	487	1,060	2,389	5,981	6,181	12,006	( <sup>1</sup> )
3542	METAL-FORMING MACHINE TOOLS (entire industry).....	291	22,502	132,368	15,572	30,905	82,192	176,021	130,143	317,657	11,723
	Establishments with:										
	90% or more specialization.....	180	9,820	58,319	6,597	12,917	34,538	82,591	61,181	147,893	4,178
	75-89% specialization.....	41	5,302	31,337	3,751	7,447	20,381	40,937	30,414	74,728	2,610
35421	Punching, shearing, bending, and forming machines (primary product class of estab.).....	91	4,519	25,840	3,150	6,235	15,422	38,348	30,352	72,097	2,738
	Establishments with:										
	90% or more specialization....	47	852	4,833	609	1,291	3,073	7,437	6,991	14,624	( <sup>1</sup> )
	75-89% specialization.....	14	1,138	6,446	865	1,642	4,098	10,037	5,862	16,620	1,289
35422	Presses, including forging presses (primary product class of estab.)..	53	6,918	40,208	4,496	9,053	23,983	51,316	46,927	103,105	1,568
	Establishments with:										
	90% or more specialization....	22	724	4,143	526	1,067	2,842	6,208	5,397	11,626	( <sup>1</sup> )
	75-89% specialization.....	7	1,098	5,935	777	1,555	4,004	7,326	6,492	14,746	( <sup>1</sup> )
35423	Other metal forming machine tools, including forging machines (primary product class of estab.).....	44	5,910	36,473	4,266	8,401	23,560	48,772	25,731	80,322	5,578
	Establishments with:										
	90% or more specialization....	15	621	3,579	422	827	2,133	6,260	2,234	8,002	( <sup>1</sup> )

See footnotes at end of table.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3542	METAL-FORMING MACHINE, ETC.—Continued										
35424	Parts for metal forming machine tools and rebuilt metal forming machinery (primary product class of estab.).....	74	4,775	27,850	3,375	6,699	17,833	34,659	25,752	57,901	1,755
	Establishments with:										
	90% or more specialization....	43	457	2,187	337	625	1,490	3,546	1,658	5,188	505
	75-89% specialization.....	8	483	2,319	246	572	1,407	2,822	2,463	5,251	( <sup>1</sup> )
3544	SPECIAL DIES AND TOOLS (entire industry).....	5,745	83,308	536,588	68,916	139,877	415,241	780,090	275,030	1,060,566	43,242
	Establishments with:										
	90% or more specialization.....	5,132	67,567	438,197	56,263	114,304	342,439	639,041	216,448	859,192	34,894
	75-89% specialization.....	165	3,035	20,331	2,387	4,975	14,805	26,825	11,891	38,949	1,104
35441	Special dies and tools, die sets, jigs and fixtures (primary product class of estab.).....	4,755	68,741	449,414	56,527	114,165	345,538	652,797	224,306	882,670	32,373
	Establishments with:										
	90% or more specialization....	4,339	56,792	372,624	47,010	94,952	289,630	540,258	177,806	721,808	28,088
	75-89% specialization.....	139	2,451	16,955	1,956	4,027	12,454	22,261	10,043	32,539	944
35442	Industrial molds (primary product class of estab.).....	867	13,443	81,462	11,426	23,850	65,098	118,244	47,475	165,641	10,476
	Establishments with:										
	90% or more specialization....	768	10,539	64,116	9,051	18,977	51,671	96,836	37,985	134,709	6,764
	75-89% specialization.....	33	537	3,108	400	829	2,191	4,026	1,774	5,845	( <sup>1</sup> )
3545	MACHINE TOOL ACCESSORIES (entire industry).....	905	41,521	226,949	29,304	56,299	143,663	348,580	143,142	511,456	15,277
	Establishments with:										
	90% or more specialization.....	774	23,986	129,147	17,400	33,428	84,576	204,026	79,750	290,577	8,058
	75-89% specialization.....	43	5,492	28,202	3,877	7,631	18,135	43,327	17,584	64,304	2,145
35451	Small cutting tools for machine tools and metalworking machinery (primary product class of estab.)..	531	26,286	143,764	18,716	35,914	92,483	226,777	90,747	329,047	9,396
	Establishments with:										
	90% or more specialization....	446	15,297	82,482	11,219	21,544	55,011	133,338	52,486	189,897	5,627
	75-89% specialization.....	25	4,688	24,843	3,252	6,278	15,791	34,207	15,198	54,249	1,556
35452	Precision measuring tools (primary product class of estab.).....	114	6,792	37,427	4,650	9,220	23,613	52,517	21,967	77,864	2,576
	Establishments with:										
	90% or more specialization....	92	1,824	9,832	1,217	2,389	6,024	14,182	6,094	20,648	599
35453	Other attachments and accessories for machine tools and metalworking machinery (primary product class of estab.).....	146	7,536	41,536	5,216	9,843	24,456	62,200	26,598	93,527	2,835
	Establishments with:										
	90% or more specialization....	102	2,876	15,809	2,105	4,064	9,968	25,465	9,417	35,091	646
	75-89% specialization.....	16	1,238	7,144	834	1,662	4,233	11,796	5,519	18,240	( <sup>1</sup> )
3548	METALWORKING MACHINERY, NEC (entire industry).....	362	33,328	183,307	24,384	46,915	120,444	332,397	241,230	602,015	16,634
	Establishments with:										
	90% or more specialization.....	267	21,348	119,374	15,535	30,402	78,831	216,687	155,489	391,631	9,400
	75-89% specialization.....	38	8,337	44,356	6,085	11,164	29,042	80,774	63,635	153,554	2,047
35481	Rolling mill machinery and equipment (primary product class of estab.)..	49	13,097	80,214	10,652	20,767	59,802	122,665	123,053	268,303	4,591
	Establishments with:										
	90% or more specialization....	30	9,312	58,136	7,619	15,307	43,797	91,599	88,200	195,685	3,563
	75-89% specialization.....	7	1,525	8,570	1,266	2,132	6,636	10,673	12,273	28,042	( <sup>1</sup> )
35482	Power-driven hand tools, including parts and attachments (primary product class of estab.).....	82	12,609	62,999	8,908	16,736	38,301	136,629	78,154	221,668	8,389
	Establishments with:										
	90% or more specialization....	51	6,660	32,394	4,586	8,607	18,970	71,415	39,576	114,848	2,548
	75-89% specialization.....	16	4,800	24,964	3,404	6,411	15,649	52,606	31,527	86,983	(D)
35483	Acetylene welding and cutting apparatus (primary product class of estab.).....	41	2,810	14,452	1,633	3,241	7,942	24,346	11,999	36,237	1,388
	Establishments with:										
	90% or more specialization....	33	2,478	12,774	1,425	2,813	7,017	21,279	10,001	31,154	1,344
35484	Automotive maintenance equipment (primary product class of estab.)..	47	2,820	14,752	1,704	3,313	7,069	27,992	15,003	42,843	597
	Establishments with:										
	90% or more specialization....	36	1,545	8,664	913	1,770	4,053	17,742	7,746	25,036	( <sup>1</sup> )
35485	Other metalworking machinery, except machine tools, nec (primary product class of estab.).....	12	934	5,536	657	1,323	3,209	9,392	6,645	15,338	435
	Establishments with:										
	90% or more specialization....	5	446	2,818	288	594	1,503	4,524	4,425	9,355	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3541—METAL-CUTTING MACHINE TOOLS								
Ferrous foundry.....	13	1	4	8	583	(D)	(D)	533
Nonferrous foundry (except die casting).....	1	...	1	...	(D)	...	(D)	...
Nonferrous die casting.....	2	...	2	...	(D)	...	(D)	...
Forging.....	4	3	1	...	16	(D)	(D)	...
Electroplating.....	11	10	1	...	29	(D)	(D)	...
Heat treating and annealing.....	71	46	22	3	323	82	173	68
Automatic screw machine department.....	37	20	14	3	244	35	127	82
Machine shop.....	204	9	59	136	17,493	30	699	16,764
Tool and die shop.....	71	20	28	23	1,375	54	299	1,022
Foundry pattern shop.....	39	18	15	6	349	41	137	171
Plate or structural fabrication.....	31	16	11	4	280	38	107	135
Stamping, blanking, and forming.....	23	12	9	2	146	34	(D)	(D)
Painting, lacquering, and enameling.....	124	80	40	4	597	144	351	102
INDUSTRY 3542—METAL-FORMING MACHINE TOOLS								
Ferrous foundry.....	9	...	...	9	629	...	...	629
Nonferrous die casting.....	2	2	...	...	(D)	(D)	...	...
Forging.....	4	1	2	1	42	(D)	(D)	(D)
Electroplating.....	1	1	...	...	(D)	(D)	...	...
Heat treating and annealing.....	40	35	5	...	120	61	59	...
Automatic screw machine department.....	16	14	1	1	74	(D)	(D)	(D)
Machine shop.....	136	13	42	81	9,177	34	559	8,584
Tool and die shop.....	53	18	19	16	967	36	162	769
Foundry pattern shop.....	31	19	11	1	169	38	(D)	(D)
Plate or structural fabrication.....	38	15	14	9	598	32	126	440
Stamping, blanking, and forming.....	16	10	4	2	102	17	(D)	(D)
Painting, lacquering, and enameling.....	54	47	7	...	120	71	49	...
INDUSTRY 3544—SPECIAL DIES AND TOOLS								
Ferrous foundry.....	17	4	6	7	788	8	54	726
Nonferrous foundry (except die casting).....	27	15	10	2	156	40	(D)	(D)
Nonferrous die casting.....	10	8	2	...	38	(D)	(D)	...
Forging.....	5	3	2	...	30	(D)	(D)	...
Electroplating.....	10	6	4	...	46	7	39	...
Heat treating and annealing.....	107	100	6	1	290	142	(D)	(D)
Automatic screw machine department.....	43	36	5	2	291	76	(D)	(D)
Machine shop.....	726	161	378	187	14,187	412	3,898	9,877
Tool and die shop.....	1,124	163	540	421	27,798	425	5,990	21,383
Foundry pattern shop.....	93	38	46	9	874	99	405	370
Plate or structural fabrication.....	81	56	22	3	406	113	179	114
Stamping, blanking, and forming.....	265	175	70	20	4,748	344	579	3,825
Painting, lacquering, and enameling.....	72	65	4	3	253	93	35	125
INDUSTRY 3545—MACHINE TOOL ACCESSORIES								
Ferrous foundry.....	2	...	...	2	(D)	...	...	(D)
Forging.....	7	2	4	1	68	(D)	41	(D)
Electroplating.....	20	17	3	...	60	30	30	...
Heat treating and annealing.....	104	69	29	6	601	140	253	208
Automatic screw machine department.....	66	38	19	9	681	83	170	428
Machine shop.....	228	23	85	120	13,196	50	1,030	12,116
Tool and die shop.....	93	30	35	28	1,499	72	394	1,033
Foundry pattern shop.....	9	4	4	1	57	9	(D)	(D)
Plate or structural fabrication.....	11	3	7	1	130	5	(D)	(D)
Stamping, blanking, and forming.....	31	14	11	6	540	19	109	412
Painting, lacquering, and enameling.....	46	40	5	1	131	62	(D)	(D)
INDUSTRY 3548—METALWORKING MACHINERY, NEC								
Ferrous foundry.....	5	1	4	...	1,271	(D)	(D)	...
Nonferrous foundry (except die casting).....	4	3	...	1	36	(D)	...	(D)
Nonferrous die casting.....	3	2	1	...	13	(D)	(D)	...
Forging.....	15	11	2	2	159	26	(D)	(D)
Electroplating.....	8	5	3	...	40	10	30	...
Heat treating and annealing.....	43	26	14	3	267	46	118	103

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3548—METALWORKING MACHINERY, NEC--Continued							
Automatic screw machine department.....	36	17	11	8	506	37	95	374
Machine shop.....	126	16	29	81	11,471	42	307	11,122
Tool and die shop.....	53	22	20	11	667	57	189	421
Foundry pattern shop.....	18	11	4	3	220	29	44	147
Plate or structural fabrication.....	45	15	15	15	1,003	34	152	817
Stamping, blanking, and forming.....	34	24	7	3	234	48	66	120
Painting, lacquering, and enameling.....	62	55	7	...	132	93	39	...

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry				
	3541	3542	3544	3545	3548
Total number of establishments in the industry.....	626	291	5,745	904	362
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	580	271	4,348	806	332
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	over 95	90-95	90-95	85-90	over 95

D Withheld to avoid disclosing figures for individual companies.

<sup>T</sup> Revised.



# Special Industry Machinery, Except Metalworking

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S. I. C. Code and Title (1957 Edition)

- 3551—Food-Products Machinery
- 3552—Textile Machinery
- 3553—Woodworking Machinery
- 3554—Paper-Industries Machinery
- 3555—Printing-Trades Machinery
- 3559—Special-Industry Machinery, Not Elsewhere Classified

These industries include establishments primarily engaged in producing industrial machinery, except metalworking machinery, specially designed for use in a specific industry or group of industries. Machinery having general industrial application, i.e., used in a number of industries, rather than specific applications are not included in this report but are included in the report for General Industrial Machinery and Equipment. Examples of general industrial machinery are pumps and compressors, fans and blowers, and mechanical power transmission equipment.

Special-industry machinery may be leased rather than sold outright. The 1958, 1954, and 1947 value of products includes the valuation of such machinery produced in those years based on market value or on tax or insurance valuation.

### 3551—Food-Products Machinery

This industry comprises establishments primarily engaged in manufacturing machinery for use by the food-products and beverage manufacturing industries in the preparation, canning, or packaging of food products. Important products of this industry include bakers' machinery and equipment (bake ovens, bread-slicing machines, wrapping machines, and dough mixers); canning machinery; chocolate and confectionery machinery; dairy products machinery and equipment, including fluid milk processing machinery, butter, cheese and ice cream machinery, condensed and evaporated milk machinery, and related equipment; flour-mill and grain-mill machinery; packing house machinery; sugar-mill machinery; coffee-roasting and grinding machines, food choppers, grinders, mixers, and slicers; peanut roasters; popcorn machines; and parts and attachments. Establishments primarily engaged in manufacturing refrigeration machinery are classified in Industry 3585, Refrigeration Machinery; household electrical appliances such as mixers, cookers, etc. are classified in Industry 3634, Electrical Housewares and Fans. For a detailed list of primary products of Industry 3551, refer to table 6A, product codes 3551113 to 3551381.

The value of shipments of Industry 3551, Food-Products Machinery, in 1958 totaled \$456 million. This included shipments of primary products (food-products machinery) valued at \$335 million, shipments of secondary products valued at \$52 million, and miscellaneous receipts of \$70 million.

Industry 3551 shipments of food-products machinery in 1958 represented 87 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 84 percent. Secondary products shipped by this industry in 1954 consisted mainly of other industrial machinery, and a wide variety of metal products.

Industry 3551 shipments of food-products machinery in 1958 represented 84 percent of the food-products machinery, valued at \$400 million, shipped by all industries. The comparable 1954 coverage ratio was 86 percent. The principal industry other than Industry 3551 shipping food-products machinery in 1958 was Industry 3559, Special-Industry Machinery, N.E.C., \$16 million.

### 3552—Textile Machinery

This industry comprises establishments primarily engaged in manufacturing machinery for the textile industries. Important products of this industry include: (1) fiber-to-fabric machinery, such as picker, carding, combing, garnetting, and spinning machines, doubling and twisting frames, winders, and beaming, warping, and slashing machines; (2) fabric machinery, such as knitting and braiding machines, looms for weaving, and Jacquard, lace, net embroidery, cordage, and rope machines; (3) machinery for bleaching, dyeing, printing, mercerizing, finishing, and drying stock, yarn, and cloth; and (4) extra parts, attachments, and accessories, not elsewhere classified. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in Industry 3636, Sewing Machines. For a detailed list of primary products of Industry 3552, refer to table 6A, product codes 3552113 to 3552298.

The value of shipments of Industry 3552, Textile Machinery, in 1958 totaled \$376 million. This included shipments of primary products (textile machinery) valued at \$304 million, shipments of secondary products valued at \$45 million, and miscellaneous receipts of \$27 million.

Industry 3552 shipments of textile machinery in 1958 represented 87 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 89 percent.

Industry 3552 shipments of textile machinery in 1958 represented 94 percent of the textile machinery, valued at \$322 million, shipped by all industries. The comparable coverage ratio in 1954 was 93 percent.

### 3553—Woodworking Machinery

This industry comprises establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers; small woodworking machinery for home, shop, and professional craftsmen; and portable electric woodworking tools. Establishments primarily engaged in manufacturing hand tools such as planes, axes, drawknives, and hand saws are classified in Group 342, Cutlery, Hand Tools and Hardware. Machines designed for use on both wood or metal, such as portable power-driven hand tools are classified in Industry 3548, Metalworking Machinery



Except Machine Tools, and machines designed primarily for use on metal in home workshops, garages and service shops are classified in Industry 3541, Machine Tools, Metal Cutting Types. The Standard Industrial Classification includes portable electric woodworking tools in Industry 3553. However, Census includes such tools in Industry 3548 since the distinction between the portable power-driven hand tool for woodworking and for metalworking is not clear. For a detailed list of primary products of Industry 3553, refer to table 6A, product codes 3553112 to 3553298.

The value of shipments of Industry 3553, Woodworking Machinery, in 1958 totaled \$214 million. This included shipments of primary products (woodworking machinery) valued at \$150 million, shipments of secondary products valued at \$42 million, and miscellaneous receipts of \$22 million.

Industry 3553 shipments of woodworking machinery in 1958 represented 78 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 84 percent.

Industry 3553 shipments of woodworking machinery in 1958 represented 86 percent of the woodworking machinery, valued at \$174 million, shipped by all industries. The 1954 comparable coverage ratio was 81 percent.

#### 3554--Paper-Industries Machinery

This industry comprises establishments primarily engaged in manufacturing machinery for the paper-pulp, paper, and paper-product industries. Establishments primarily engaged in rebuilding pulp and paper-industries machinery are also included in this industry. Establishments primarily engaged in manufacturing printing-trades machinery are classified in Industry 3555, Printing-Trades Machinery. For a detailed list of primary products of Industry 3554, refer to table 6A, product codes 3554011 to 3554081.

The value of shipments of Industry 3554, Paper-Industries Machinery, in 1958 totaled \$310 million. This included shipments of primary products (paper-industries machinery) valued at \$254 million, shipments of secondary products valued at \$19 million, and miscellaneous receipts of \$37 million.

Industry 3554 shipments of paper-industries machinery in 1958 represented 93 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 85 percent.

Industry 3554 shipments of paper-industries machinery in 1958 represented 91 percent of the paper-industries machinery, valued at \$280 million, shipped by all industries. The comparable coverage ratio in 1954 was 86 percent.

#### 3555--Printing-Trades Machinery (Full Standard Industrial Classification Title: Printing Trades Machinery and Equipment)

This industry comprises establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Important products of this industry include bookbinding and photoengraving machinery; printers' machinery such as presses, typesetting, typefounding, electrotyping, and stereotyping ma-

chines; engravers' equipment (metal plates, wood blocks, and lithographic stones); printers' rollers, rules, sticks, blocks, and type cases; and type, leads, and slugs. Establishments primarily engaged in manufacturing textile-printing machinery are classified in Industry 3552, Textile Machinery. For a detailed list of primary products of Industry 3555, refer to table 6A, product codes 3555111 to 3555298.

The value of shipments of Industry 3555, Printing-Trades Machinery, in 1958 totaled \$310 million. This included shipments of primary products (printing-trades machinery and equipment) valued at \$250 million, shipments of secondary products valued at \$15 million, and miscellaneous receipts of \$45 million.

Industry 3555 shipments of printing-trades machinery in 1958 represented 95 percent of its total shipments (primary and secondary). In 1954, the primary product specialization ratio was also 95 percent.

Industry 3555 shipments of printing-trades machinery in 1958 represented 92 percent of the printing-trades machinery valued at \$270 million, shipped by all industries. The comparable 1954 coverage ratio was 90 percent.

#### 3559--Special Industry Machinery, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing special-industry machinery, not elsewhere classified, such as smelting and refining equipment, cement-making, clay-working, glass-making, hat-making, incandescent lamp-making, leather-working, paint-making, rubber-working, tobacco-working, cigar and cigarette-making, shoe-making, and stone-working machinery. For a detailed list of primary products of Industry 3559, refer to table 6A, product codes 3559111 to 3559593.

Also included in this industry according to the 1957 edition of the Standard Industrial Classification, are establishments primarily engaged in manufacturing electric and fuel-fired nonmetallic processing industrial furnaces, ovens, kilns, and lehrs. Such establishments were formerly classified in Industry 3567, Industrial Furnaces and Ovens. The overall effect of the addition of these establishments to Industry 3559 is negligible, amounting to less than one percent both in total number of employees and value of shipments.

The value of shipments of Industry 3559, Special-Industry Machinery, N.E.C., in 1958 totaled \$761 million. This included shipments of primary products (special-industry machinery, n.e.c.), valued at \$558 million, shipments of secondary products valued at \$115 million, and miscellaneous receipts of \$88 million.

Industry 3559 shipments of primary products in 1958 represented 83 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 82 percent. Secondary products shipped by this industry in 1954 consisted mainly of dairy and other food-products machinery and general industrial machinery such as pumps, blowers, heat exchangers, etc.

Industry 3559 shipments of primary products (special-industry machinery, n.e.c.) in 1958 represented 77 percent of these products, valued at \$726 million, shipped by all industries. The comparable 1954 coverage ratio was 73 percent.



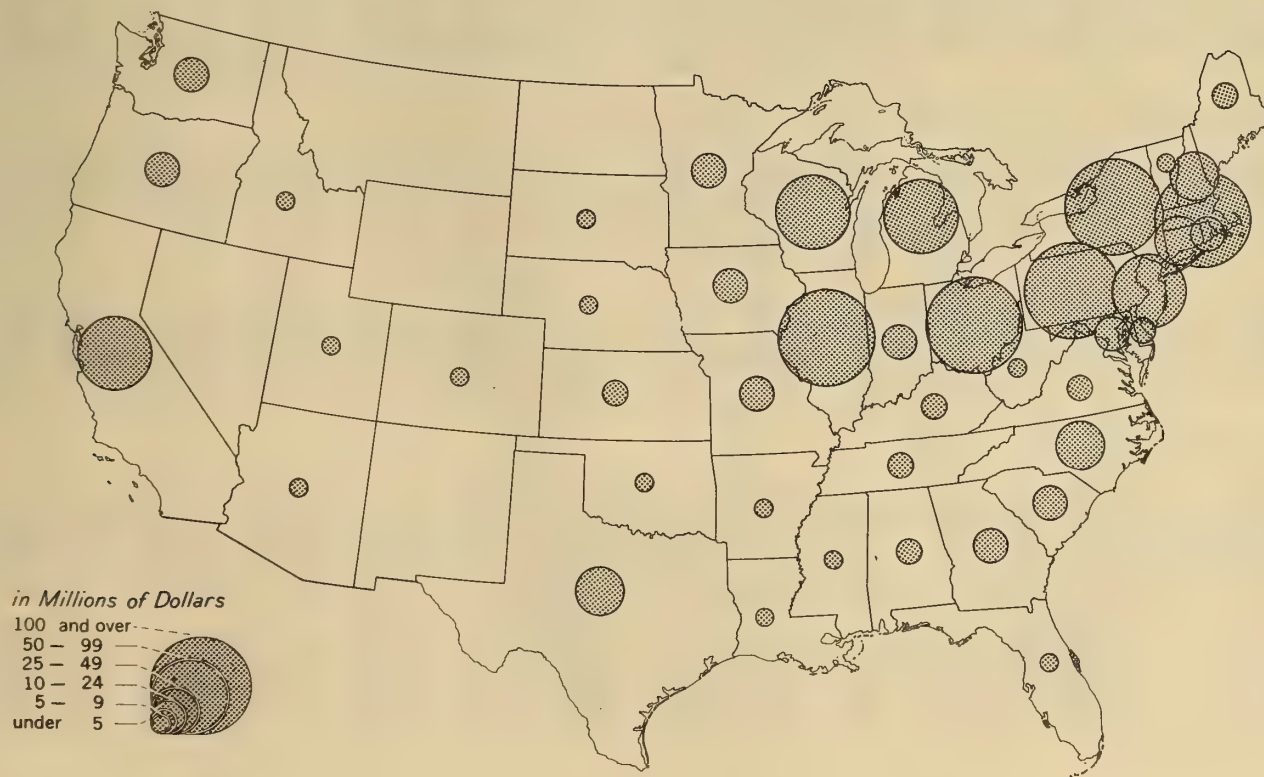
Industry 3559, by definition, includes establishments producing machinery and equipment for specific industrial uses, excepting machinery and equipment specifically classified in other industries within Major Groups 35 and 36, particularly Group 354, Metalworking Machinery and the other industries in Group 355 previously discussed. Accordingly, there are included in Industry 3559 establish-

ments primarily engaged in producing machinery and equipment designed for various processing industries. As these data show, of the 1,048 establishments classified in this industry, 272 establishments with over 40 percent of the total employment of the industry were primarily engaged in producing machinery and equipment for chemical processing, foundries, plastics-working, and rubber-working.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY: SIC 355

Value Added by Manufacture by State: 1958



Includes Industries 3551, 3552, 3553, 3554, 3555 and 3559. See Table 2.

Bureau of the Census M-58-D355

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3551 (old SIC 3551)	Food-products machinery:														
	1958.....	657	672	240	27,715	152,515	18,195	36,304	86,824	268,639	185,816	456,171	7,583	87	84
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	32,160	167,192	22,722	45,964	100,964	256,506	169,893	429,709	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	34,130	172,950	24,329	51,153	106,332	279,485	173,492	434,014	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	31,276	148,417	22,282	46,212	93,316	242,572	140,080	380,905	(S)	(NA)	(NA)
	1954.....	650	672	261	33,205	152,518	23,717	49,009	98,570	261,779	168,585	432,200	7,571	84	86
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	30,763	137,301	22,183	(NA)	90,723	231,047	129,154	360,201	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	30,704	132,965	22,220	(NA)	87,736	218,522	125,281	343,803	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	33,973	141,729	24,938	(NA)	95,948	215,895	143,792	359,687	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,796	109,231	21,373	(NA)	69,902	173,918	113,152	287,070	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,187	98,236	21,530	(NA)	64,793	155,750	96,383	252,133	(NA)	(NA)	(NA)
	1947.....	605	623	(NA)	36,927	113,823	28,894	62,099	82,246	191,758	135,923	327,681	(NA)	89	82
	1939 <sup>9</sup> .....	(NA)	406	(NA)	(NA)	(NA)	14,155	(NA)	18,931	58,587	33,082	91,669	(NA)	(NA)	(NA)
	1937 <sup>10</sup> .....	(NA)	323	(NA)	(NA)	(NA)	18,475	(NA)	26,579	74,781	39,301	114,082	(NA)	(NA)	(NA)
3552 (old SIC 3552)	Textile machinery:														
	1958.....	513	553	212	34,313	154,548	25,611	51,206	101,897	214,199	154,182	376,340	8,508	87	94
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	38,871	171,533	29,355	60,342	117,213	256,419	140,192	393,794	18,820	87	95
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	40,858	178,744	31,511	65,146	122,067	283,416	169,937	441,314	12,250	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	38,579	162,641	29,866	62,437	113,821	265,131	152,177	405,993	9,253	(NA)	(NA)
	1954.....	517	535	210	36,595	145,253	28,093	55,733	98,668	216,606	127,167	347,145	8,528	89	93
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	38,295	154,807	20,017	(NA)	112,012	228,361	113,847	342,208	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	44,350	174,355	34,610	(NA)	122,996	273,923	133,066	406,989	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	56,539	214,834	45,561	(NA)	157,020	338,685	210,488	549,173	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	50,492	178,039	39,161	(NA)	128,675	299,119	156,665	455,784	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,847	166,330	39,481	(NA)	119,673	283,570	149,192	430,762	(NA)	(NA)	(NA)
	1947.....	470	489	(NA)	53,583	158,446	45,393	98,607	126,142	256,436	146,949	403,385	(NA)	95	93
	1939.....	(NA)	339	(NA)	(NA)	(NA)	22,580	(NA)	28,461	62,033	34,876	96,909	(NA)	(NA)	(NA)
	1937 <sup>11</sup> .....	(NA)	356	(NA)	29,161	42,566	25,340	(NA)	33,139	71,883	35,546	107,429	(NA)	(NA)	(NA)
	1935.....	(NA)	349	(NA)	22,682	29,731	19,072	(NA)	21,246	45,715	23,131	68,846	(NA)	(NA)	(NA)
	1933.....	(NA)	314	(NA)	21,281	23,855	18,576	(NA)	18,737	41,945	18,378	60,323	(NA)	(NA)	(NA)
	1931.....	(NA)	330	(NA)	(NA)	(NA)	18,808	(NA)	21,238	47,623	18,175	65,798	(NA)	(NA)	(NA)
	1929.....	(NA)	376	(NA)	31,263	50,497	27,019	(NA)	37,836	85,883	36,556	122,439	(NA)	(NA)	(NA)
	1927.....	(NA)	367	(NA)	30,220	47,398	26,154	(NA)	36,481	80,740	36,181	116,921	(NA)	(NA)	(NA)
	1925.....	(NA)	379	(NA)	32,329	49,003	27,869	(NA)	37,464	82,616	39,037	121,653	(NA)	(NA)	(NA)
	1923.....	(NA)	428	(NA)	40,041	57,086	35,672	(NA)	46,023	90,955	49,706	140,661	(NA)	(NA)	(NA)
	1921.....	(NA)	421	(NA)	34,469	47,129	31,025	(NA)	38,831	84,031	44,904	128,935	(NA)	(NA)	(NA)
	1919 <sup>12</sup> .....	(NA)	432	(NA)	35,772	44,627	31,823	(NA)	36,529	76,452	45,637	122,089	(NA)	(NA)	(NA)
3553 (old SIC 3553)	Woodworking machinery:														
	1958.....	251	257	96	12,219	63,414	8,036	15,945	36,904	112,936	88,530	214,376	6,924	78	86
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,376	55,638	8,161	16,601	37,468	108,615	74,191	176,578	(S)	82	78
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,869	62,983	9,616	19,283	43,025	133,493	84,096	200,727	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,254	57,257	9,796	18,994	39,228	118,375	71,365	183,739	(S)	(NA)	(NA)
	1954.....	247	249	96	11,973	53,821	8,839	17,771	35,224	102,525	73,945	178,799	4,329	84	81
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,349	65,636	11,338	(NA)	44,397	107,075	85,108	192,183	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,124	56,666	10,226	(NA)	39,850	93,075	59,398	152,473	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,879	61,799	11,578	(NA)	43,816	102,956	80,218	183,174	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,148	48,313	10,065	(NA)	31,915	78,158	52,834	130,992	(NA)	(NA)	(NA)
	1947.....	(NA)	294	(NA)	16,233	50,488	13,018	27,219	36,383	90,841	62,040	152,881	(NA)	78	77
	1939 <sup>9</sup> .....	(NA)	148	(NA)	(NA)	(NA)	3,649	(NA)	4,683	12,677	7,783	20,460	(NA)	(NA)	(NA)
3554 (old SIC 3554)	Paper-industries machinery:														
	1958.....	192	202	97	15,713	89,881	11,356	22,727	58,198	123,758	155,610	310,179	4,847	93	91
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,208	104,540	14,412	29,724	70,459	221,104	145,973	332,386	11,811	90	89
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,957	97,844	13,648	29,117	66,023	182,198	131,890	288,343	13,137	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,626	79,911	11,768	24,349	53,969	132,072	99,697	224,015	6,962	(NA)	(NA)
	1954.....	163	169	98	15,003	73,713	11,516	23,745	50,057	109,803	92,479	206,951	4,916	85	86
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	13,802	66,912	10,667	(NA)	46,610	99,682	78,867	178,549	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,487	71,654	11,880	(NA)	50,781	101,775	81,581	183,356	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,328	67,500	11,891	(NA)	48,213	97,581	76,153	173,734	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,939	51,054	9,761	(NA)	34,279	74,415	54,376	128,791	(NA)	(NA)	(NA)
	1947.....	144	149	(NA)	17,088	57,749	13,398	29,782	41,523	81,358	69,727	151,085	(NA)	85	89
	1939.....	(NA)	116	(NA)	(NA)	(NA)	5,570	(NA)	7,984	20,198	13,017	33,215	(NA)	(NA)	(NA)
	1937 <sup>10</sup> .....	(NA)	91	(NA)	(NA)	(NA)	6,813	(NA)	10,861	24,391	19,015	43,406	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3555 (old SIC 3555)	Printing-trades machinery:														
	1958.....	421	442	119	21,453	119,575	15,278	30,001	78,005	188,881	111,702	309,797	8,496	95	92
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,150	130,589	17,038	33,569	83,823	214,068	89,297	295,678	7,570	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,985	132,712	18,111	36,941	89,524	218,496	87,626	287,812	8,748	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,763	114,368	16,150	33,149	75,869	194,344	69,809	251,425	7,240	(NA)	(NA)
	1954.....	342	358	109	21,960	110,679	16,416	33,027	74,515	178,966	95,538	276,320	6,634	95	90
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,554	98,554	15,011	(NA)	73,743	159,791	65,797	225,588	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,461	113,806	17,173	(NA)	79,428	171,233	79,270	250,503	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,421	110,813	18,265	(NA)	77,548	155,797	80,370	236,167	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,298	87,535	16,679	(NA)	61,219	141,855	62,073	203,928	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,512	88,352	18,271	(NA)	61,455	148,715	63,788	212,503	(NA)	(NA)	(NA)
	1947.....	300	327	(NA)	24,880	84,750	19,684	42,739	62,919	138,915	60,447	199,362	(NA)	95	94
	1939.....	(NA)	254	(NA)	(NA)	(NA)	9,564	(NA)	14,903	41,137	15,419	56,556	(NA)	(NA)	(NA)
	1937.....	(NA)	230	(NA)	17,191	29,851	13,716	(NA)	22,378	57,662	20,966	78,628	(NA)	(NA)	(NA)
	1935 <sup>13</sup> .....	(NA)	238	(NA)	12,935	20,484	9,884	(NA)	13,582	38,429	13,131	51,560	(NA)	(NA)	(NA)
3559 (old SIC 3559)	Special-industry machinery, nec:														
	1958 <sup>14</sup> .....	1,025	1,048	388	50,849	273,665	34,042	67,312	163,464	431,117	320,070	761,077	17,449	83	77
	1957.....	(NA)	(NA)	(NA)	53,986	295,328	37,627	79,340	186,546	489,144	363,274	837,304	(S)	(NA)	(NA)
	1956.....	(NA)	(NA)	(NA)	53,649	287,434	38,602	82,695	186,357	512,756	331,364	798,888	(S)	(NA)	(NA)
	1955.....	(NA)	(NA)	(NA)	47,420	237,667	33,735	71,099	150,079	390,828	254,038	622,970	14,541	(NA)	(NA)
	1954.....	898	917	330	47,007	218,553	33,997	69,310	141,160	353,857	244,974	625,053	13,742	81	73
	1947.....	(NA)	1,185	(NA)	58,610	187,727	45,156	(NA)	134,013	294,236	189,041	483,275	(NA)	80	78

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of the subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3551	256,240	3554	112,565
3552	217,560	3555	173,805
3553	101,721	3559	352,943

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3551	163,291	148,022	3554	139,413	87,071
3552	143,959	119,228	3555	88,512	74,913
3553	81,842	65,438	3559	281,841	227,573

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3551	429,530	404,261	3554	292,443	196,635
3552	364,781	336,785	3555	279,102	248,719
3553	204,716	167,160	3559	712,563	580,515

Footnotes continued on next page.

## MANUFACTURES—INDUSTRY STATISTICS

Footnotes for Table 1—MC-35D

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with 1937 was \$58.9 million for "Food-products machinery." No comparable figures are available for "Woodworking machinery" prior to 1939.

<sup>10</sup>"Food-products machinery" and "Paper-industries machinery" were not shown as separate industries prior to 1937, but were included with the industry formerly designated "Machinery, nec".

<sup>11</sup>The figures for "Textile machinery" for 1937 and earlier years are not entirely comparable with those for later years because they include data for establishments reporting roll covering or re-covering as their major activity. Figures for 1937 include 44 such establishments having \$1.1 million total value of products.

<sup>12</sup>"Textile machinery" was not shown as a separate industry prior to 1919, but was included with the industry formerly designated "Foundry and machine shop products."

<sup>13</sup>Prior to 1935, "Printing-trades machinery" was included among the three discontinued industries "Printers' supplies," "Engravers' materials," and "Foundry and machine shop products." Separate figures are, therefore, not available for earlier years.

<sup>14</sup>The 1957 edition of the Standard Industrial Classification redefined Industry 3559 to include establishments primarily engaged in manufacturing electric and fuel-fired nonmetallic processing industrial furnaces, ovens, kilns, and lehrs which were formerly classified in Industry 3567, Industrial Furnaces and Ovens. The effect of this change in definition is negligible, amounting to less than one percent both in total number of employees and value of shipments for 1958.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3551	Food-products													
	machinery, total...	672	240	27,715	152,515	18,195	36,304	86,824	268,639	456,171	7,583	33,205	256,240	36,927
	New England.....	39	11	3,113	17,944	1,636	3,325	8,419	29,875	42,873	530	2,678	22,733	841
	Massachusetts...	27	10	2,928	16,885	1,521	3,118	7,845	27,177	38,270	(2)	1,377	10,695	419
	Middle Atlantic...	140	49	4,584	24,652	3,141	6,442	14,628	37,804	70,170	1,809	4,888	34,499	9,210
	New York.....	82	28	2,398	12,546	1,671	3,353	7,641	22,008	37,168	683	2,732	20,520	6,219
	East North													
	Central.....	199	86	11,583	66,365	7,503	14,939	36,096	122,537	203,739	2,286	16,090	130,525	14,465
	Ohio.....	34	15	2,127	11,883	1,323	2,533	6,515	21,829	37,078	(2)	3,459	28,660	2,863
	Indiana.....	17	4	742	3,883	444	879	2,145	6,990	11,471	(2)	649	6,009	1,269
	Illinois.....	81	36	4,095	22,928	2,766	5,507	13,145	38,522	63,561	988	5,913	48,436	5,788
	Michigan.....	29	12	2,227	15,126	1,399	2,733	6,935	32,659	52,787	(2)	3,093	25,104	579
	Wisconsin.....	38	19	2,392	12,545	1,571	3,287	7,356	22,537	38,842	(2)	2,975	22,314	3,966
	West North													
	Central.....	76	24	2,760	13,871	1,891	3,753	8,229	27,091	49,126	631	2,522	18,709	4,336
	Minnesota.....	22	8	732	3,745	465	989	2,142	6,196	12,858	(2)	734	5,448	793
	Iowa.....	19	8	909	4,151	678	1,239	2,675	9,288	14,481	(2)	854	6,317	1,303
	Missouri.....	24	4	670	3,658	405	794	2,016	6,404	12,828	(2)	797	5,343	1,703
	Kansas.....	8	4	447	2,308	341	728	1,387	5,173	8,886	(2)	(3)	(3)	(3)
	South Atlantic...	52	25	2,303	11,030	1,624	3,185	7,269	19,729	34,336	(2)	3,155	20,921	2,913
	Maryland.....	15	7	1,078	5,687	727	1,408	3,748	10,682	18,081	(2)	1,830	12,731	2,087
	Georgia.....	14	10	648	2,918	474	1,006	1,898	5,287	8,315	(2)	540	2,512	248
	Florida.....	10	4	277	1,173	195	337	809	1,252	4,138	(2)	574	4,698	406
	East South													
	Central.....	8	3	153	808	112	202	583	1,657	2,920	(2)	387	3,731	196
	Kentucky.....	5	3	130	726	96	170	524	1,623	2,795	(D)	313	3,429	141
	West South													
	Central.....	30	13	596	2,776	425	858	1,897	4,824	8,928	(2)	430	2,316	483
	Louisiana.....	6	4	212	1,025	150	312	674	1,675	3,233	(2)	(3)	(3)	(3)
	Oklahoma.....	4	3	103	348	53	81	165	674	1,323	(2)	(3)	(3)	(3)
	Texas.....	20	6	281	1,403	222	465	1,058	2,475	4,372	(2)	217	1,170	334
	West.....	128	29	2,623	15,069	1,863	3,600	9,703	25,122	44,079	1,845	(3)	(3)	(3)
	Washington.....	10	1	104	587	85	189	471	952	1,772	(2)	(3)	(3)	(3)
	California.....	104	25	2,214	12,708	1,562	3,000	8,199	21,449	37,546	1,755	2,547	19,312	3,827

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3552	Textile machinery, total.....	553	212	34,313	154,548	25,611	51,206	101,897	214,199	376,340	8,508	36,595	217,560	53,583
	New England.....	156	69	16,367	73,337	12,049	24,031	48,229	98,328	175,115	4,127	18,273	102,426	33,430
	New Hampshire.....	8	6	2,145	9,849	1,554	3,260	6,675	17,211	23,315	(2)	2,270	14,798	(D)
	Massachusetts.....	86	35	10,178	44,438	7,404	14,318	28,667	56,971	101,065	2,794	11,271	61,782	20,169
	Rhode Island.....	39	17	1,893	8,334	1,433	2,742	5,446	15,139	23,026	(2)	2,126	12,333	3,660
	Middle Atlantic.....	169	50	8,357	41,737	6,123	11,920	27,499	55,338	93,118	1,818	10,814	71,767	14,790
	New York.....	58	10	931	5,023	722	1,422	3,511	8,297	14,246	(2)	906	5,999	2,054
	New Jersey.....	52	11	1,372	7,196	1,072	2,133	4,784	11,319	18,195	(2)	1,786	13,757	2,515
	Pennsylvania.....	59	29	6,054	29,518	4,329	8,365	19,204	35,722	60,677	1,262	8,121	52,010	10,221
	East North													
	Central.....	21	5	1,044	5,216	683	1,326	3,113	7,482	10,539	(2)	1,079	8,632	(D)
	Ohio.....	7	3	121	589	96	199	442	1,024	1,564	(2)	114	647	736
	Illinois.....	8	2	869	4,419	541	1,047	2,497	5,998	8,258	(2)	920	7,788	987
	South Atlantic.....	174	79	7,863	31,001	6,204	12,827	20,601	47,363	88,643	2,287	5,950	31,932	2,990
	North Carolina.....	94	41	4,017	16,040	2,988	6,180	10,066	23,455	42,838	1,100	2,970	17,667	1,048
	South Carolina.....	36	22	2,773	10,572	2,354	4,947	7,536	17,235	33,431	(3)	847	(3)	(3)
	Georgia.....	33	14	984	4,004	790	1,565	2,766	6,237	11,703	(2)	885	4,805	747
	East South													
	Central.....	11	6	512	2,553	419	860	1,916	4,080	6,517	(2)	381	2,244	297
	Tennessee.....	6	3	213	1,069	180	389	898	1,803	2,973	(2)	(3)	(3)	(3)
	All other													
	Divisions.....	22	3	170	704	133	242	539	1,608	2,408	(2)	98	559	2,076
3553	Woodworking machinery, total.....	257	96	12,219	63,414	8,036	15,945	36,904	112,936	214,376	6,924	11,973	101,721	16,233
	New England.....	26	7	1,592	8,304	711	1,509	3,404	11,170	24,668	652	(3)	(3)	(3)
	Middle Atlantic.....	29	13	1,068	5,820	655	1,291	3,015	11,038	17,423	(2)	1,354	12,509	2,214
	New York.....	13	5	187	884	123	236	520	1,205	1,903	(2)	271	1,568	869
	East North													
	Central.....	72	31	3,985	20,588	2,641	5,279	12,354	33,759	69,914	3,606	3,838	33,100	8,030
	Ohio.....	10	6	666	3,337	444	874	1,886	6,965	13,313	2,283	449	6,621	1,356
	Indiana.....	11	4	223	1,130	141	296	674	2,149	5,157	(2)	202	1,813	481
	Illinois.....	20	7	1,405	7,259	909	1,784	4,329	9,179	25,193	819	691	6,751	1,388
	Michigan.....	15	6	741	3,897	491	931	2,423	6,307	11,469	(2)	1,323	10,401	2,494
	Wisconsin.....	16	8	950	4,965	656	1,394	3,042	9,159	14,782	(2)	1,172	7,513	2,311
	West North													
	Central.....	11	4	271	1,401	192	372	758	2,283	5,088	(2)	247	1,491	725
	South Atlantic.....	19	7	678	2,455	453	858	1,388	11,789	19,603	(2)	296	1,589	848
	North Carolina.....	10	6	608	2,254	397	756	1,263	11,344	18,500	(2)	248	1,338	733
	East South													
	Central.....	18	9	1,139	4,827	830	1,579	3,054	8,866	19,157	737	879	6,061	767
	Tennessee.....	7	3	585	2,600	403	799	1,638	2,786	5,368	(2)	422	1,553	327
	West South													
	Central.....	14	2	207	1,184	170	378	726	2,496	3,881	(2)	128	981	244
	West.....	68	23	3,279	18,835	2,384	4,679	12,205	31,535	54,642	1,290	3,545	27,591	1,954
	Oregon.....	27	11	829	4,796	562	1,062	2,812	9,036	14,972	(2)	783	7,599	(D)
	California.....	23	5	1,881	10,740	1,397	2,835	7,214	17,405	30,311	1,080	2,220	15,748	678
3554	Paper-industries machinery, total.....	202	97	15,713	89,881	11,356	22,727	58,198	123,758	310,179	4,847	15,003	112,565	17,088
	New England.....	50	28	3,623	19,260	2,511	5,095	11,504	30,785	54,569	1,570	3,859	30,642	4,327
	New Hampshire.....	6	3	1,273	5,992	868	1,703	3,371	11,694	17,457	675	1,164	9,617	792
	Massachusetts.....	30	21	2,209	12,524	1,542	3,205	7,689	18,126	35,579	846	2,558	20,103	2,573
	Middle Atlantic.....	67	31	4,820	28,209	3,185	6,375	16,801	40,132	90,264	1,203	4,833	35,169	6,108
	New York.....	33	15	2,326	13,458	1,517	3,024	7,841	17,861	48,182	(2)	2,782	18,255	3,861
	New Jersey.....	17	9	1,528	9,967	1,030	2,049	5,841	13,586	26,371	664	1,133	10,193	922
	Pennsylvania.....	17	7	966	4,784	638	1,302	3,119	8,685	15,711	(2)	918	6,721	1,325
	East North													
	Central.....	51	24	5,537	33,117	4,431	8,799	23,842	39,659	138,016	1,548	4,460	34,644	(D)
	Ohio.....	10	6	1,307	7,820	877	1,695	4,668	8,925	27,401	556	1,280	11,858	1,715
	Wisconsin.....	26	13	4,001	24,135	3,386	6,782	18,375	28,738	106,946	959	3,048	21,936	2,694
	South Atlantic.....	8	6	1,131	5,974	804	1,619	3,857	7,753	17,757	(2)	1,091	5,844	1,414
	Maryland.....	4	3	421	2,184	309	680	1,479	3,953	7,394	(2)	(3)	(3)	(3)
	Pacific.....	14	6	410	2,300	300	593	1,566	4,020	6,954	(2)	536	4,052	322
	Washington.....	5	2	205	1,231	159	291	868	2,146	4,186	(2)	492	3,685	(D)
	All other													
	Divisions.....	12	2	192	1,021	125	246	628	1,409	2,619	...	224	2,214	4,917
3555	Printing-trades machinery, total.....	442	119	21,453	119,575	15,277	30,001	78,005	188,881	309,797	8,496	21,960	173,805	24,880
	New England.....	37	13	1,892	9,945	1,330	2,808	6,599	14,221	20,890	624	1,766	11,590	2,273
	Connecticut.....	8	5	799	4,501	573	1,184	2,915	6,561	7,399	(2)	(3)	(3)	(3)
	Middle Atlantic.....	176	54	10,746	59,916	7,666	15,008	39,621	91,807	152,143	5,398	10,812	81,494	12,844
	New York.....	95	24	6,130	34,792	4,211	8,676	22,996	55,061	85,450	3,487	6,643	52,116	7,897
	New Jersey.....	53	17	2,531	16,003	1,854	3,781	10,616	22,908	44,447	1,302	2,526	17,562	2,848
	Pennsylvania.....	28	13	2,085	9,121	1,601	2,551	6,009	13,838	22,246	609	1,642	11,815	2,099
	East North													
	Central.....	121	37	7,613	43,932	5,474	10,694	28,209	72,299	120,206	2,117	8,403	73,864	8,779
	Ohio.....	30	9	1,953	10,861	1,406	2,840	7,183	20,218	35,721	(2)	2,549	21,354	2,242
	Illinois.....	60	23	5,137	30,180	3,692	7,154	19,226	47,215	76,586	1,585	4,947	45,802	5,025
	Michigan.....	15	4	393	2,284	281	514	1,391	3,785	5,882	(2)	476	3,605	916

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expend- itures, new (\$1,000)	All em- ployees, number	Value added by manufac- ture, unadjusted (\$1,000)	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3559	Printing—trades, etc.—Continued													
	West North Central.....	26	4	357	1,591	223	415	917	3,156	4,898	(2)	255	1,657	403
	Minnesota.....	9	1	107	468	65	121	261	1,052	1,793	(2)	122	596	263
	Missouri.....	9	1	114	507	80	139	324	900	1,192	(2)	(3)	(3)	(3)
	South.....	45	6	441	1,843	315	586	1,264	3,520	5,860	(2)	(3)	(3)	(3)
	Texas.....	13	2	131	567	92	197	410	1,252	1,953	(2)	(3)	(3)	(3)
	West.....	37	5	404	2,348	269	490	1,395	3,878	5,800	(2)	338	2,809	199
	California.....	34	5	386	2,302	258	475	1,370	3,809	5,620	(2)	333	2,783	190
	Special industry machinery, NEC, total.....	1,048	388	50,849	273,665	34,042	67,312	163,464	431,117	761,077	17,499	47,007	352,943	58,610
	New England.....	101	35	6,941	38,019	4,915	9,629	24,366	57,413	90,882	1,766	9,196	62,023	11,302
	Massachusetts..	52	21	4,163	22,576	2,905	5,648	14,749	31,659	45,816	939	6,276	37,847	6,525
	Connecticut...	26	9	2,327	13,475	1,695	3,336	8,304	23,276	40,454	787	2,253	21,022	3,247
	Middle Atlantic...	294	109	14,707	77,788	9,857	19,601	48,086	118,381	211,050	4,444	13,311	97,736	14,029
	New York.....	138	37	5,898	32,016	4,079	8,061	21,115	45,984	80,282	1,570	3,771	28,162	7,168
	New Jersey.....	83	39	4,331	22,636	2,859	5,982	13,333	38,928	67,987	1,770	4,397	34,661	3,266
	Pennsylvania...	73	33	4,478	23,136	2,919	5,558	13,638	33,469	62,781	1,104	5,142	34,912	3,595
	East North Central.....	340	143	16,107	92,979	10,578	20,698	52,625	148,802	263,689	6,622	13,884	117,018	21,656
	Ohio.....	125	61	8,076	44,394	5,582	10,699	27,159	69,856	117,755	3,224	6,815	56,332	11,280
	Indiana.....	27	7	1,741	10,149	1,093	2,119	5,133	14,427	24,304	1,185	1,274	11,258	1,969
	Illinois.....	90	33	2,672	16,470	1,593	3,198	8,167	28,721	50,713	957	2,546	20,621	3,782
	Michigan.....	73	29	2,882	18,134	1,813	3,742	10,039	28,859	60,265	838	2,508	21,866	2,136
	Wisconsin.....	25	13	736	3,832	497	940	2,127	6,939	10,652	(2)	739	6,939	2,489
	West North Central.....	47	19	1,620	7,210	883	1,684	3,455	11,142	21,836	1,176	1,069	7,560	2,015
	Iowa.....	11	5	376	1,838	305	663	1,368	3,310	5,825	(2)	(3)	(3)	(3)
	Missouri.....	16	5	825	3,210	310	457	984	3,824	8,891	(2)	603	4,392	956
	South Atlantic...	59	29	3,993	20,498	2,496	4,932	10,667	28,341	50,448	1,126	3,732	23,797	2,764
	Maryland.....	8	5	1,091	5,927	634	1,349	2,930	9,735	17,702	(2)	1,117	7,830	160
	Virginia.....	12	4	435	1,404	278	441	891	1,729	3,467	(2)	216	1,549	320
	North Carolina..	10	5	347	1,384	274	478	929	2,646	4,855	(2)	314	1,745	148
	Georgia.....	11	8	1,020	4,450	634	1,291	2,342	8,498	12,837	(2)	1,052	6,627	1,116
	Florida.....	9	2	192	894	119	254	455	803	3,125	(2)	(3)	(3)	(3)
	East South Central.....	26	9	1,126	5,277	918	1,823	3,932	8,943	15,040	(2)	888	6,226	1,050
	Tennessee.....	10	3	225	1,108	153	296	626	2,035	2,960	(2)	161	906	199
	Alabama.....	8	3	774	3,502	668	1,327	2,847	5,485	9,293	(2)	620	3,818	(D)
	West South Central.....	44	17	3,159	14,870	2,196	4,631	9,003	27,726	52,622	878	2,733	19,822	1,962
	Texas.....	31	11	2,648	12,723	1,802	3,967	7,601	24,604	44,585	728	2,449	18,283	1,637
	West.....	137	27	3,196	17,024	2,199	4,314	11,330	30,369	55,510	1,151	2,190	18,758	3,832
	Oregon.....	8	3	254	1,377	188	336	929	3,062	5,763	(2)	(3)	(3)	(3)
	California.....	110	21	2,634	14,108	1,801	3,490	9,228	22,836	42,897	887	1,719	14,947	2,740

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3551, Food-Products Machinery: New England—Maine, 1 (1-19); Vermont, 2 (1-19) Rhode Island, 1 (1-19); Connecticut, 8 (100-249); Middle Atlantic—New Jersey, 21 (100-249); Pennsylvania, 37 (1,937); West North Central—South Dakota, 1 (1-19); Nebraska, 2 (1-19); South Atlantic—Delaware, 2 (1-19); Virginia, 7 (250-499); North Carolina, 4 (20-99); East South Central—Tennessee, 2 (20-99); Mississippi, 1 (1-19); West—Idaho, 1 (1-19); Colorado, 4 (100-249); Arizona, 1 (1-19); Utah, 2 (20-99); Oregon, 6 (20-99).

SIC 3552, Textile Machinery: New England—Maine, 5 (1,820); Vermont, 7 (100-249); Connecticut, 11 (100-299); East North Central—Michigan, 3 (20-99); Wisconsin, 3 (20-99); West North Central—Minnesota, 2 (1-19); Iowa, 3 (1-19); Missouri, 4 (20-99); Nebraska, 1 (1-19); South Atlantic—Delaware, 1 (20-99); Maryland, 1 (1-19); Virginia, 2 (20-99); Florida, 7 (20-99); East South Central—Kentucky, 4 (250-499); Alabama, 1 (20-99); West South Central—Texas, 2 (20-99); Pacific—Washington, 2 (1-19); California, 7 (20-99).

SIC 3553, Woodworking Machinery: New England—Maine, 3 (1-19); New Hampshire, 4 (20-99); Vermont, 1 (1-19); Massachusetts, 15 (500-999); Connecticut, 3 (500-999); Middle Atlantic—New Jersey, 4 (250-499); Pennsylvania, 12 (500-999); West North Central—Minnesota, 5 (100-249); Iowa, 1 (1-19); Missouri, 4 (100-249); Nebraska, 1 (1-19); South Atlantic—Maryland, 1 (1-19); Virginia, 1 (1-19); Connecticut, 2 (1-19); Georgia, 5 (20-99); East South Central—Kentucky, 3 (20-99); Alabama, 3 (100-249); Mississippi, 5 (250-499); West South Central—Arkansas, 3 (20-99); Louisiana, 2 (100-249); Oklahoma, 1 (1-19); Texas, 8 (20-99); West—Colorado, 1 (1-19); Utah, 1 (1-19); Washington, 16 (500-999);

SIC 3554, Paper-Industries Machinery: New England—Maine, 3 (20-99); Vermont, 2 (20-99); Rhode Island, 3 (20-99); Connecticut, 6 (20-99); North Central—Indiana, 5 (100-249); Illinois, 7 (20-99); Michigan, 3 (20-99); West North Central—Minnesota, 4 (100-249); Missouri, 2 (1-19); South—Delaware, 1 (500-999); Virginia, 2 (100-249); South Carolina, 1 (20-99); Alabama, 1 (1-19); Arkansas, 1 (1-19); Louisiana, 2 (20-99); Texas, 1 (1-19); West—Colorado, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 8 (100-249).

SIC 3555, Printing-Trades Machinery: New England—New Hampshire, 4 (250-499); Massachusetts, 23 (500-999); Rhode Island, 2 (20-99); East North Central—Indiana, 3 (20-99); Wisconsin, 13 (20-99); West North Central—Iowa, 3 (1-19); Nebraska, 2 (1-19); Kansas, 3 (100-249); South—Maryland, 8 (20-99); District of Columbia, 1 (1-19); Virginia, 1 (1-19); North Carolina, 6 (1-19); Georgia, 3 (20-99); Florida, 1 (20-99); Kentucky, 3 (20-99); Tennessee, 3 (1-19); Alabama, 1 (1-19); Mississippi, 2 (20-99); Louisiana, 1 (1-19); Oklahoma, 2 (1-19); West—Colorado, 1 (1-19); Arizona, 1 (1-19); Oregon, 1 (1-19).

SIC 3559, Special-Industry Machinery, NEC: New England—Maine, 2 (1-19); New Hampshire, 7 (20-99); Vermont, 3 (100-249); Rhode Island, 11 (250-499); West North Central—Minnesota, 15 (250-499); Nebraska, 2 (1-19); Kansas, 3 (20-99); South Atlantic—Delaware, 5 (500-999); West Virginia, 3 (20-99); South Carolina, 1 (1-19); East South Central—Kentucky, 7 (100-249); Mississippi, 1 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 2 (20-99); Oklahoma, 10 (250-499); West—Colorado, 5 (20-99); Arizona, 1 (1-19); Utah, 1 (1-19); Washington, 12 (100-249).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such states. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 3.—Detailed Statistics for the United States: 1958

Item	Food- products machinery (SIC 3551)	Textile machinery (SIC 3552)	Woodworking machinery (SIC 3553)	Paper- industries machinery (SIC 3554)	Printing trades machinery (SIC 3555)	Special- industry machinery, nec (SIC 3559)
Primary product specialization ratio <sup>1</sup> .....	87	87	78	93	95	83
Coverage ratio <sup>2</sup> .....	84	94	86	91	92	77
Number of establishments, total.....	672	553	257	202	442	1,048
With 1-19 employees.....	432	341	161	105	323	660
With 20-99 employees.....	184	158	71	59	80	279
With 100 employees or more.....	56	54	25	38	39	109
Proprietors and working partners.....Number...	299	252	112	61	174	420
All employees:						
Number (average for the year).....	27,715	34,313	12,219	15,713	21,453	50,849
Payroll.....\$1,000...	152,515	154,548	63,414	89,881	119,575	273,665
Production workers:						
Number (average for the year).....	18,195	25,611	8,036	11,356	15,277	34,042
March.....	18,540	27,220	7,843	12,173	15,947	35,343
May.....	18,686	25,498	7,594	11,447	15,573	34,617
August.....	18,185	24,643	8,007	10,923	14,920	33,505
November.....	17,531	25,236	8,782	10,923	14,735	32,785
Man-hours.....1,000...	36,304	51,206	15,945	22,727	30,001	67,312
January-March.....do....	9,186	13,851	3,905	6,261	8,224	17,650
April-June.....do....	9,452	12,470	3,719	5,743	7,626	17,165
July-September.....do....	8,537	11,390	3,733	5,111	6,794	15,507
October-December.....do....	8,851	13,286	4,510	5,551	7,169	16,555
Wages.....\$1,000...	86,824	101,897	36,904	58,198	78,005	163,464
Cost of materials, etc., total.....do....	185,816	154,182	88,530	155,610	111,702	320,070
Materials, parts, containers, and supplies consumed.....do....	152,418	136,984	76,883	133,212	82,552	259,751
Cost of resales.....do....	22,525	10,223	6,688	16,197	23,190	38,229
Fuels consumed.....do....	1,305	2,444	812	1,166	968	3,410
Electricity purchased.....do....	2,063	2,374	1,115	1,431	1,467	4,756
Contract work.....do....	7,505	2,145	3,032	3,604	3,561	13,899
Value of shipments (including resales), total.....do....	456,171	376,340	214,376	310,179	309,797	761,077
Value of resales.....do....	26,641	11,559	9,660	17,736	30,695	48,514
Value added by manufacture, adjusted.....do....	268,639	214,199	112,936	123,758	188,881	431,117
Manufacturers' inventories:						
Beginning of year, total.....do....	118,992	112,334	64,209	118,222	106,418	218,606
Finished products.....do....	43,400	30,415	27,888	9,358	36,737	82,855
Work-in-process.....do....	39,049	43,317	23,460	87,212	48,174	74,727
Materials, supplies, fuel, etc.....do....	36,543	38,602	12,861	21,652	21,507	61,024
End of year, total.....do....	<sup>r</sup> 119,368	99,155	50,962	85,561	97,008	204,186
Finished products.....do....	43,744	28,921	19,866	8,649	35,225	82,154
Work-in-process.....do....	36,989	36,852	18,572	57,110	40,472	65,538
Materials, supplies, fuel, etc.....do....	38,635	33,382	12,524	19,802	21,311	56,494
Expenditures for plant and equipment, total.....do....	8,908	9,234	8,755	5,264	9,696	18,682
New, total.....do....	7,583	8,508	6,924	4,847	8,496	17,449
New structures and additions to plant.....do....	1,684	2,380	1,758	885	3,245	4,616
New machinery and equipment.....do....	5,899	6,128	5,166	3,962	5,251	12,833
Used plant and equipment.....do....	1,325	726	1,831	( <sup>3</sup> )	1,200	1,233

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>2</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3551	Food-products machinery:											
	Number of establishments.....	672	214	115	103	124	60	33	14	7	2	...
	All employees:											
	Number.....	27,715	444	779	1,421	3,943	4,146	4,662	5,182	7,138	(D)	...
	Payroll.....\$1,000..	152,515	2,009	3,913	6,925	21,277	22,663	26,101	26,661	42,966	(D)	...
	Value added, adjusted..do....	268,639	4,370	7,230	11,688	38,275	38,428	47,716	45,786	75,146	(D)	...
	Value of shipments.....do....	456,171	9,369	13,481	20,789	67,159	69,328	78,985	75,493	121,567	(D)	...
	Capital expend., new...do....	7,583	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	812	894	1,105	2,470	1,447	(D)	...
3552	Textile machinery:											
	Number of establishments.....	553	159	87	95	110	48	28	14	5	6	1
	All employees:											
	Number.....	34,313	352	585	1,364	3,367	3,512	4,453	4,832	2,950	12,898	(D)
	Payroll.....\$1,000..	154,548	1,281	2,440	5,628	14,054	15,688	20,665	21,382	14,351	59,059	(D)
	Value added, adjusted..do....	214,199	2,615	4,092	8,000	20,642	24,353	33,369	29,077	20,079	71,972	(D)
	Value of shipments.....do....	376,340	4,741	6,993	15,569	35,369	41,353	55,362	51,559	32,041	133,353	(D)
	Capital expend., new...do....	8,508	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	965	528	620	1,030	879	3,711	(D)
3553	Woodworking machinery:											
	Number of establishments.....	257	83	37	41	54	17	13	9	2	1	...
	All employees:											
	Number.....	12,219	173	256	564	1,764	1,353	2,031	3,147	2,931	(D)	...
	Payroll.....\$1,000..	63,414	743	1,135	2,643	8,806	7,403	9,651	16,351	16,682	(D)	...
	Value added, adjusted..do....	112,936	1,458	2,902	4,499	13,457	11,791	16,216	37,040	25,573	(D)	...
	Value of shipments.....do....	214,376	2,978	6,138	8,394	25,877	22,352	31,315	64,017	53,305	(D)	...
	Capital expend., new...do....	6,924	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	897	719	2,452	890	1,650	(D)	...
3554	Paper-industries machinery:											
	Number of establishments.....	202	55	24	26	39	20	21	12	4	1	...
	All employees:											
	Number.....	15,713	108	156	389	1,151	1,514	3,301	4,211	4,883	(D)	...
	Payroll.....\$1,000..	89,881	542	849	2,016	6,337	8,191	19,474	24,265	28,207	(D)	...
	Value added, adjusted..do....	123,758	1,673	1,494	3,125	9,672	13,857	31,933	37,710	24,294	(D)	...
	Value of shipments.....do....	310,179	3,095	2,472	5,171	17,049	24,347	56,962	70,246	130,837	(D)	...
	Capital expend., new...do....	4,847	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	628	1,125	1,205	1,375	(D)	...
3555	Printing-trades machinery:											
	Number of establishments.....	442	165	87	71	54	26	15	15	5	4	...
	All employees:											
	Number.....	21,453	364	607	976	1,725	1,775	2,483	4,830	3,481	5,212	...
	Payroll.....\$1,000..	119,575	1,621	2,866	4,818	8,813	10,217	13,844	28,109	17,702	31,585	...
	Value added, adjusted..do....	188,881	3,891	4,912	7,817	15,346	17,367	19,407	40,911	29,797	49,433	...
	Value of shipments.....do....	309,797	6,668	8,500	17,688	24,606	27,582	30,955	77,751	44,366	71,681	...
	Capital expend., new...do....	8,496	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	646	2,762	906	2,620	...
3559	Special-industry machinery, nec:											
	Number of establishments.....	1,048	305	179	176	187	92	63	28	14	4	...
	All employees:											
	Number.....	50,849	654	1,178	2,450	5,748	6,168	9,268	9,626	9,202	6,555	...
	Payroll.....\$1,000..	273,665	2,977	5,609	12,818	31,548	33,621	47,570	52,222	51,735	35,565	...
	Value added, adjusted..do....	431,117	7,852	10,698	21,275	49,140	51,145	80,950	92,461	69,087	48,518	...
	Value of shipments.....do....	761,077	13,641	18,213	36,882	91,396	91,166	138,864	176,946	119,448	74,521	...
	Capital expend., new...do....	17,449	757	597	718	2,253	2,683	3,032	2,084	3,632	1,693	...

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized on columns F through H and shown as a ratio in column I)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3551	Food-products machinery.....1958..	456,171	334,764	51,725	69,682	87	399,846	334,764	65,082	84
	.....1954..	432,200	320,266	61,284	50,650	84	371,408	320,266	51,142	86
3552	Textile machinery.....1958..	376,340	304,233	45,058	27,049	87	322,239	304,233	18,006	94
	.....1954..	347,145	284,137	33,960	29,048	89	304,053	284,137	19,916	93
3553	Woodworking machinery.....1958..	214,376	149,808	42,438	22,130	78	174,489	149,808	24,681	86
	.....1954..	178,799	133,165	24,454	21,180	84	163,431	133,165	30,266	81
3554	Paper-industries machinery.....1958..	310,179	253,624	19,442	37,113	93	280,106	253,624	26,482	91
	.....1954..	206,951	151,672	26,463	28,816	85	176,172	151,672	24,500	86
3555	Printing-trades machinery.....1958..	309,797	249,845	14,650	45,302	95	270,646	249,845	20,801	92
	.....1954..	276,320	205,113	20,308	50,899	95	228,774	205,113	23,661	90
3559	Special-industry machinery nec..1958..	761,077	558,163	114,704	88,210	83	726,437	558,163	168,274	77
	.....1954..	625,053	446,512	96,684	81,857	82	611,661	446,512	165,149	73

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Food-products machinery industry	Food-products machinery (SIC 3551)	Special- industry machinery, nec (SIC 3559)	Other industries	All industries
	Total shipments and receipts of the industry.....	456,171	xxx	xxx	xxx
	Primary products, total.....	334,764	16,316	48,766	399,846
35511	Dairy and milk products plant machinery and equipment.....	52,198	2,368	<sup>1</sup> 10,045	64,611
35512	Commercial food-products machinery.....	86,849	2,246	<sup>2</sup> 11,885	100,980
35513	Other industrial food products machinery.....	172,884	11,702	<sup>3</sup> 26,204	210,790
35510	Food-products machinery, not specified by kind.....	22,833	...	632	23,465
	Secondary products, total.....	51,725	xxx	xxx	xxx
34435	Metal tanks.....	5,945	xxx	xxx	xxx
3559-	Special-industry machinery, nec.....	<sup>4</sup> 14,011	xxx	xxx	xxx
35690	General industrial machinery.....	3,626	xxx	xxx	xxx
	Other secondary products.....	28,143	xxx	xxx	xxx
	Miscellaneous receipts, total.....	69,682	xxx	xxx	xxx
	Contract and commission work.....	3,940	xxx	xxx	xxx
	Sales of products bought and resold.....	26,641	xxx	xxx	xxx
	Installation work by manufacturing plant employees.....	19,622	xxx	xxx	xxx
	Scrap and salable refuse and repair work.....	17,747	xxx	xxx	xxx
	Other.....	1,732	xxx	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry,  
for the United States: 1958-Continued

Prod. class code	Textile machinery industry	Textile machinery (SIC 3552)	Other industries	All industries
	Total shipments and receipts of the industry.....	376,340	xxx	xxx
	Primary products, total.....	304,233	18,006	322,239
35521	Textile machinery.....	136,063	7,657	143,720
35522	Parts and attachments for textile machinery.....	158,571	10,166	168,737
35520	Textile machinery, not specified by kind.....	9,599	183	9,782
	Secondary products, total.....	45,058	xxx	xxx
33214	All other gray iron castings.....	2,160	xxx	xxx
3551-	Food-products machinery.....	2,426	xxx	xxx
35540	Paper-industries machinery.....	2,241	xxx	xxx
3555-	Special-industry machinery.....	3,205	xxx	xxx
35591	Chemical manufacturing industries machinery.....	2,270	xxx	xxx
35595	Cement making machinery.....	2,027	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.....	2,844	xxx	xxx
	Other secondary products.....	527,885	xxx	xxx
	Miscellaneous receipts, total.....	27,049	xxx	xxx
	Contract and commission work.....	5,608	xxx	xxx
	Sales of products bought and resold.....	11,559	xxx	xxx
	Scrap and salable refuse and repair work.....	7,082	xxx	xxx
	Other.....	2,800	xxx	xxx
Prod. class code	Woodworking machinery industry	Woodworking machinery (SIC 3553)	Other industries	All industries
	Total shipments and receipts of the industry.....	214,376	xxx	xxx
	Primary products, total.....	149,808	24,681	174,489
35531	Woodworking machines, except home workshop.....	130,061	<sup>e</sup> 15,017	145,078
35532	Woodworking machines for home workshop.....	16,965	8,720	25,685
35530	Woodworking machines, not specified by kind.....	2,782	944	3,726
	Secondary products, total.....	42,438	xxx	xxx
3522-	Farm machinery and equipment.....	5,212	xxx	xxx
3541-	Metal-cutting machine tools.....	4,892	xxx	xxx
3548-	Metalworking machinery nec.....	2,873	xxx	xxx
3561-	Pumps and compressors.....	3,017	xxx	xxx
3621-	Motors and generators.....	4,090	xxx	xxx
	Other secondary products.....	722,354	xxx	xxx
	Miscellaneous receipts, total.....	22,130	xxx	xxx
	Contract and commission work.....	3,398	xxx	xxx
	Sales of products bought and resold.....	9,660	xxx	xxx
	Scrap and salable refuse and repair work.....	7,841	xxx	xxx
	Other.....	1,231	xxx	xxx
Prod. class code	Paper-industries machinery industry	Paper- industries machinery (SIC 3554)	Other industries	All industries
	Total shipments and receipts of the industry.....	310,179	xxx	xxx
35540	Paper-industries machinery.....	253,624	<sup>a</sup> 26,482	280,106
	Secondary products, total.....	19,442	xxx	xxx
3551-	Food-products machinery.....	2,436	xxx	xxx
3559-	Special-industry machinery, nec.....	4,829	xxx	xxx
	Other secondary products.....	<sup>a</sup> 12,177	xxx	xxx
	Miscellaneous receipts, total.....	37,113	xxx	xxx
	Contract and commission work.....	4,520	xxx	xxx
	Sales of products bought and resold.....	17,736	xxx	xxx
	Other (chiefly sales of scrap and salable refuse and repair work).....	14,857	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Printing trades machinery industry	Printing trades machinery (SIC 3555)	Other industries	All industries
	Total shipments and receipts of the industry.....	309,797	xxx	xxx
	Primary products, total.....	249,845	20,801	270,646
35551	Printing presses.....	89,862	4,339	94,201
35552	Other printing trades machinery.....	138,372	<sup>10</sup> 14,634	153,006
35550	Printing-trades machinery, not specified by kind.....	21,611	1,828	23,439
	Secondary products, total.....	14,650	xxx	xxx
35690	Fabricated rubber products, nec.....	2,203	xxx	xxx
35790	Office machines, nec.....	5,289	xxx	xxx
	Other secondary products.....	7,158	xxx	xxx
	Miscellaneous receipts, total.....	45,302	xxx	xxx
	Contract and commission work.....	2,141	xxx	xxx
	Sales of products bought and resold.....	30,695	xxx	xxx
	Other (chiefly sales of scrap and salable refuse and repair work).....	12,466	xxx	xxx

Prod. class code	Special-industrial machinery industry	Special- industrial machinery (SIC 3559)	Metal- cutting machine tools (SIC 3541)	Special dies and tools (SIC 3544)	Other industries	All industries
	Total shipments and receipts of the industry.....	761,077	xxx	xxx	xxx	xxx
	Primary products, total.....	558,163	4,965	6,857	156,452	726,437
35591	Chemical manufacturing industries machinery.....	91,755	...	...	<sup>11</sup> 26,703	118,458
35592	Foundry machinery.....	46,431	...	...	6,208	52,639
35593	Plastics-working machinery.....	32,154	3,191	274	<sup>12</sup> 15,199	50,818
35594	Rubber-working machinery.....	50,659	148	171	3,117	54,095
35595	Other special-industrial machinery.....	304,054	1,626	5,686	<sup>13</sup> 103,325	414,691
35590	Special industrial machinery, not specified by kind.....	33,110	...	726	1,900	35,736
	Secondary products, total.....	114,704	xxx	xxx	xxx	xxx
28340	Pharmaceutical preparations.....	3,956	xxx	xxx	xxx	xxx
35210	Gray iron foundries.....	2,475	xxx	xxx	xxx	xxx
34336	Other heating equipment (except electric).....	3,627	xxx	xxx	xxx	xxx
34430	Boiler shop products.....	<sup>14</sup> 9,592	xxx	xxx	xxx	xxx
34990	Fabricated metal products, nec.....	2,771	xxx	xxx	xxx	xxx
35410	Metal-cutting machine tools.....	2,694	xxx	xxx	xxx	xxx
35420	Metal-forming machine tools.....	3,371	xxx	xxx	xxx	xxx
35442	Industrial molds.....	4,055	xxx	xxx	xxx	xxx
35511	Dairy and milk products plant machinery.....	2,368	xxx	xxx	xxx	xxx
35512	Commercial food products machinery.....	2,246	xxx	xxx	xxx	xxx
35513	Other industrial food products machinery.....	11,702	xxx	xxx	xxx	xxx
35540	Paper-industries machinery.....	4,380	xxx	xxx	xxx	xxx
35642	Dust collection, air purification equipment, and air washers.....	4,231	xxx	xxx	xxx	xxx
35690	General industrial machinery, nec.....	7,194	xxx	xxx	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.....	5,997	xxx	xxx	xxx	xxx
38210	Mechanical measuring devices.....	2,090	xxx	xxx	xxx	xxx
	Other secondary products.....	<sup>15</sup> 41,955	xxx	xxx	xxx	xxx
	Miscellaneous receipts, total.....	88,210	xxx	xxx	xxx	xxx
	Contract and commission work.....	15,106	xxx	xxx	xxx	xxx
	Sales of products bought and resold.....	48,514	xxx	xxx	xxx	xxx
	Installation work by manufacturing plant employees.....	4,710	xxx	xxx	xxx	xxx
	Research and development work.....	1,590	xxx	xxx	xxx	xxx
	Scrap and salable refuse and repair work.....	16,992	xxx	xxx	xxx	xxx
	Other.....	1,298	xxx	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup>Includes \$2,709 thousand from Industry 3585, Refrigeration Machinery.<sup>2</sup>Includes \$2,018 thousand from Industry 3576, Scales and Balances.<sup>3</sup>Includes \$2,843 thousand from Industry 3532, Mining Machinery and Equipment and \$4,502 thousand for establishments classified in Industry 3569, General Industrial Machinery, NEC.<sup>4</sup>Includes chemical manufacturing industries machinery and equipment (product class 35591) valued at \$7,997 thousand.<sup>5</sup>Of this figure, 28 percent consists of the following product classes: 35712, Computing and accounting machines; and 37175, Parts and accessories for motor vehicles shipped to motor vehicle manufacturers.<sup>6</sup>Includes \$3,525 thousand shipped by Industry 3541, Metal-Cutting Machine Tools.<sup>7</sup>Of this figure, 35 percent consists of the following product classes: 25141, Metal household furniture; 35197, Parts and accessories for internal combustion engines; 37176, Parts and accessories for motor vehicles shipped to other than motor vehicle manufacturers.<sup>8</sup>Includes \$2,241 thousand from Industry 3552, Textile Machinery; \$2,166 thousand from Industry 3553, Woodworking Machinery; \$4,380 thousand from Industry 3559, Special-Industrial Machinery, NEC; and \$2,949 thousand from Industry 3569, General-Industrial Machinery, NEC.<sup>9</sup>Includes plastics-working machinery and equipment (product class 35593) valued at \$3,810 thousand.<sup>10</sup>Includes \$6,258 thousand from Industry 3069, Fabricated Rubber Products, NEC.<sup>11</sup>Includes \$7,997 thousand from Industry 3551, Food-Products Machinery; and \$2,270 thousand from Industry 3552, Textile Machinery.<sup>12</sup>Includes \$10,298 thousand from Industries 3542, Metal-Forming Machine Tools; 3551, Food-Products Machinery; and 3554, Paper-Industries Machinery.<sup>13</sup>Includes \$2,182 thousand from Industry 3443, Boiler Shop Products; \$8,673 thousand from Industry 3532, Mining Machinery and Equipment; \$3,521 thousand from Industry 3533, Conveyors; \$2,027 thousand from Industry 3552, Textile Machinery; \$4,108 thousand from Industry 3566, Power Transmission Equipment; \$7,668 thousand from Industry 3567, Industrial Furnaces and Ovens; \$2,950 thousand from Industry 3612, Transformers; \$3,256 thousand from Industry 3731, Ship Building and Repairing; and \$34,671 from Industries 3357, Nonferrous Wire Drawing, etc.; 3585, Refrigeration Machinery; 3661, Telephone and Telegraph Apparatus; 3679, Electronic Components, NEC; and 3861, Photographic Equipment.<sup>14</sup>Includes heat exchangers and steam condensers (product class 34431) valued at \$5,447 thousand.<sup>15</sup>Of this figure 19 percent consists of the following product classes: 32914, Metal abrasives; 33220, Malleable iron castings, and 38111, Aircraft flight, nautical, and navigational instruments and automatic pilots.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3551---	Food-products machinery and equipment, total.....		xxx	399,846	xxx	371,408
35511--	Dairy and milk products plant machinery and equipment.....		xxx	64,611	xxx	81,267
	Bottling machinery for dairies:					
3551113- 14	Filling machinery.....		xxx	9,154	xxx	39,060
3551115	Other dairy bottling machinery (including washing and sterilizing, capping, labeling, etc.).....		xxx	6,849		
	Pasteurizers:					
3551141	Batch or vat-type.....		(NA)	1,783	(NA)	2,188
3551145	Continuous or plate-type.....	No. of units...	588	4,461	342	2,248
3551151	Homogenizers.....	..do.....	398	2,613	604	1,845
3551173	Ice cream freezers.....		(NA)	2,947	(NA)	3,898
3551183	Butter and cheese-products plant machinery and equipment.....		(NA)	1,966	(NA)	2,045
3551122	Cream separators (capacity over 1,500 pounds per hours) and clarifiers.....		xxx	32,261	xxx	26,806
3551198	Other dairy and milk-products plant machinery and equipment.....					
3551100	Dairy and milk-products plant machinery and equipment, not specified by kind.....		xxx	2,577	xxx	3,177
35512--	Commercial food-products machinery <sup>1</sup> .....		xxx	100,980	xxx	88,158
3551211	Slicers.....	No. of units...	21,849	7,472	29,662	9,070
3551221	Choppers, grinders, cutters, dicers, and similar machines.....	..do.....	34,584	11,527	28,398	8,918
3551225	Tenderizers.....	..do.....	7,943	1,315	10,037	1,668
3551231	Mixers and whippers (except drink mixers).....	..do.....	10,739	7,487	13,431	7,079
3551241	Parts and attachments for commercial food-preparation machines.....		xxx	4,995	xxx	6,851
3551251	Other commercial food preparation machines, power-driven.....		xxx	8,474	xxx	9,077
	Bakery machinery and equipment:					
3551261	Dough mixers.....		xxx	6,584	(NA)	3,810
	Bake ovens:					
3551271	Traveling tray.....	No. of units...	274	5,126	320	4,805
3551275	Other.....	..do.....	560	3,085	481	2,580
3551281	Slicing machines <sup>2</sup> .....	..do.....	747	1,176	1,426	2,371
3551285	Wrapping machines <sup>2</sup> .....	..do.....	251	2,979	601	3,107
3551291	Other bakery machinery and equipment.....		xxx	25,890	xxx	23,540
3551260	Bakery machinery and equipment, not specified by kind.....		xxx	3,991	xxx	3,034
3551210	Commercial food-products machinery, not specified by kind.....		xxx	10,879	xxx	2,248
35513--	Other industrial food-products machinery, including parts and attachments for all types of industrial food products machinery.....		xxx	210,790	xxx	197,517
3551311	Meat- and poultry-packing plant machinery and equipment (including dehairing, killing, stuffing, cooking, rendering, cutting, pressing, grinding, chopping, and canning machines, etc.).....		xxx	26,439	xxx	26,478
	Fruit- and vegetable-canning and packing machinery:					
3551323	Preparation machinery.....		xxx	12,556	xxx	30,949
3551325	Wrapping, filling, and sealing machinery.....		xxx	8,640		
3551329	All other fruit- and vegetable-canning and packing machinery.....		xxx	12,857		
3551331	Flour-mill and grain-mill machinery.....		xxx	35,244	xxx	21,259
3551341	Sugar-plant machinery (include cane and beet mills, crushers, pulverizers, crystalizers, granulators, etc.).....		xxx	18,617	xxx	5,175
3551351	Other industrial food-products machinery.....		xxx	29,069	xxx	38,699
	Bottling machinery (all types except dairy):					
3551361	Carbonators (beverage bottling).....	No. of units...	330	3,152	650	2,907
3551365	Filling-capping machines.....	..do.....	567	7,866	753	7,468
3551367	Bottle washers.....	..do.....	225	8,009	256	6,971
3551369	Other food bottling machinery, except dairy.....		xxx	15,668	xxx	13,776
3551360	Bottling machinery (except dairy), not specified by kind.....		xxx	1,120	xxx	537
3551310	Other industrial food-products machinery, not specified by kind.....		xxx	12,119	xxx	2,421
3551381	Parts and attachments for industrial food-products machinery.....		xxx	19,434	xxx	40,877
3551000	Food-products machinery, not specified by kind.....		xxx	23,465	xxx	4,466
3552---	Textile-industries machinery, total.....		xxx	322,239	xxx	304,053
35521--	Textile machinery.....		xxx	143,720	xxx	143,315
	Fiber-to-fabric machinery:					
	Cleaning and opening machinery:					
3552113	Picker machines.....	No. of machines	618	1,989	215	803
3552119	Garnetting and other.....		(NA)	2,565	(NA)	4,759
3552122	Carding machines.....	No. of machines	265	2,422	170	1,421
3552132	Combing machines.....	..do.....	236	2,774	(NA)	( <sup>3</sup> )
3552136	Drawing and roving frames.....	No. of frames..	1,168	11,057	<sup>4</sup> 1,692	<sup>4</sup> 2,037

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3552---	Textile-industries machinery--Continued					
35521--	Textile machinery--Continued					
	Spinning and twisting frames:					
3552142	Spinning frames.....	No. of frames.....	852	11,172	1,211	13,347
3552146		Total no. of spindles	166,840	xxx	304,500	xxx
3552147		No. of frames.....	552	7,874	747	7,135
3552148	Twisting frames.....	Total no. of spindles	72,313	xxx	120,080	xxx
	Yarn preparing machines:					
3552151	Winding machines (skein, spool, bobbin, quill, cone, etc.).....	No. of machines.....	409	5,641	(NA)	11,557
3552153	Other yarn preparing machines (beaming, warping, warp-tying, warp drawing-in, slashing, etc.).....		xxx	8,821	xxx	5,173
3552155	Other fiber-to-fabric machinery.....		xxx	4,183	xxx	<sup>a</sup> 10,136
	Fabric machinery:					
3552164-68	Power looms (including looms operating without shuttles).....		(NA)	10,620	(NA)	17,287
	Knitting machines:					
3552171-73	Hosiery (circular and full fashioned).....	No. of machines.....	5,184	20,486	2,711	22,710
3552175	Other knitting machines.....	do.....	964	6,892	1,047	6,865
3552184	Other fabric machinery (including lace, embroidery, braiding, and tufting machinery; and hand looms).....		xxx	4,525	xxx	2,244
3552185	Bleaching, dyeing, and finishing machinery.....		xxx	11,127	xxx	17,901
3552187	Machinery for drying stock, yarn, cloth, etc.....		xxx	4,419	xxx	3,817
3552198	Textile-industries machinery, nec. (except parts, attachments, and accessories).....		xxx	17,759	xxx	16,123
3552100	Textile machinery, not specified by kind.....		xxx	9,394	...	...
35522--	Parts and attachments for textile machinery.....		xxx	168,737	xxx	160,738
3552211	Textile-industries machinery, parts, attachments, and accessories: Textile machinery turnings and shapes (bobbins, shuttles, spools, picker sticks, etc.).....		xxx	23,939	xxx	25,178
	Parts, attachments, and accessories for fiber-to-fabric machinery:					
3552222	Card clothing.....	1,000 sq. ft.....	1,747	7,121	1,209	4,855
3552231	Other parts, attachments, and accessories for fiber-to-fabric machinery, except card clothing.....		xxx	38,980	xxx	11,733
3552241	Parts, attachments, and accessories for power looms.....		xxx	38,588	xxx	41,583
3552245	Parts, attachments, and accessories for knitting machines.....		xxx	11,168	xxx	25,294
3552253	Parts, attachments, and accessories for fabric machinery (except parts, attachments, and accessories for power looms and knitting machines).....		xxx	7,730	xxx	7,481
3552271	Parts, attachments, and accessories for bleaching, dyeing, and finishing machinery.....		xxx	6,135	xxx	44,614
3552298	Textile-industries machinery parts, attachments, and accessories, nec.....		xxx	26,240	xxx	...
3552200	Textile-industries machinery parts, attachments, and accessories, not specified by kind.....		xxx	8,836	xxx	...
3552000	Textile-industries machinery, including parts and attachments, not specified by kind.....		xxx	9,782	xxx	...
3553---	Woodworking machinery, total.....		xxx	174,489	xxx	163,431
35531--	Woodworking machinery (except machinery designed primarily for home workshops, garages, and service shops).....		xxx	145,078	xxx	136,208
3553112	Sawmill equipment.....		xxx	15,780	xxx	12,832
3553115	Veneer and plywood-making; woodbox and crate-making machinery.....		xxx	7,954	xxx	6,618
3553162	Sawing machinery (except sawmill equipment and chain saws).....	No. of units.....	39,635	10,744	34,435	9,885
3553167	Chain saws.....	do.....	329,164	43,867	223,442	40,297
3553171	Jointers, matchers, molders, mortisers, shapers, and tenoners (except power-driven hand-held tools).....		(NA)	8,221	(NA)	7,719
3553181	Parts, attachments, and accessories for woodworking machinery (sold separately).....		xxx	38,521	xxx	34,215
3553198	Other woodworking machinery (except power-driven hand-held tools) (including lathes, planing machines, and surfacing machines, except hand-held).....		xxx	12,515	xxx	21,792
3553100	Woodworking machinery (except home workshop) not specified by kind		xxx	7,476	xxx	2,850
35532--	Woodworking machinery (or primarily woodworking) (designed primarily for home workshops, garages, and service shops) (excluding power-driven hand tools).....		xxx	25,685	xxx	27,223
3553221	Saws (including circular).....	No. of units.....	308,631	15,144	412,258	13,266
3553281	Parts, attachments, and accessories for machine tools and wood-working machines designed primarily for home workshops, etc. (sold separately) (except parts for power-driven hand tools).....		xxx	2,411	xxx	2,895
3553298	Other machine tools and woodworking machines designed primarily for home workshops, etc. (except power-driven hand tools) (including lathes, drilling machines, jointers, planers, and shapers).....		xxx	6,693	xxx	9,768
3553200	Woodworking machinery designed primarily for home workshops, not specified by kind.....		xxx	1,437	xxx	1,294
3553000	Woodworking machinery, not specified by kind.....		xxx	3,726	xxx	xxx

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3554---	Pulp and paper industries machinery, total.....		xxx	280,106	xxx	174,651
	Pulp and paper industries machinery (new):					
3554011	Wood preparation equipment (including barkers, chippers, knotters, splitters, chipscreens, etc.).....		xxx	1,826	xxx	2,078
	Pulp mill machinery:					
3554021	Grinders.....	No. of units...	99	2,879	(5)	(5)
3554023	Digesters.....	..do.....			41	1,291
3554025	Deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, and savealls.....		xxx	13,754		
3554027	Recovery room equipment.....				xxx	515,543
3554029	Other pulp mill machinery.....		xxx	4,810	(8)	(8)
3554031	Paper mill machinery (beaters, jordans, and other stock preparation)...		xxx	15,179	xxx	8,485
	Paper machines:					
3554041	Fourdriniers (including yankee machinery).....	No. of units...	39	63,201	(NA)	20,678
3554045	Calenders (including super-calenders).....	..do.....	10	2,131		
3554043	Cylinders.....					
3554049	Other paper machinery (including forming machines and finishing machinery, but excluding calenders).....		xxx	38,600	xxx	13,759
	Paper and paperboard converting equipment:					
3554051	Bag making machines (including shipping sack machines).....	No. of units...			(NA)	5,068
3554052	Envelope making machines.....	..do.....	1,236	13,334	527	3,448
3554053	Corrugated box machines.....	..do.....	1,265	17,634	949	14,122
3554054	Box, carton, and shipping container machines (except corrugated box machines).....	..do.....	941	7,115	(NA)	9,863
3554056	Toilet roll and napkin machines.....	..do.....	125	3,230	222	2,175
3554059	Other paper and paperboard converting equipment (including drum, can, and tube machines).....		xxx	18,760	(NA)	731,750
	Rebuilt pulp and paper industries machinery:					
3554071	Rebuilt paper machines (including fourdriniers, yankees, cylinders, and forming machines).....		xxx	16,872	xxx	8,428
3554075	Other rebuilt pulp and paper industries machinery.....		xxx	3,257	xxx	4,104
3554081	Parts and attachments for pulp mill, paper mill, and paper converting machinery and equipment (sold separately).....		xxx	43,329	xxx	30,547
3554000	Paper industries machinery, not specified by kind.....		xxx	14,195	xxx	3,312
3555---	Printing-trades machinery and equipment, total.....		xxx	270,646	xxx	228,774
35551--	Printing presses,.....		xxx	94,201	xxx	80,398
	Presses:					
	Letterpress (typographical, relief):					
	Sheet-fed:	No. of complete presses.....				
3555111	Platen.....				612	1,140
3555112	High-speed cylinder (job) up to and including 22" by 28" (including vertical).....	..do.....	1,131	3,899	859	5,644
3555113-15	Cylinder presses over 22" by 28" and rotary letterpresses (sheet-fed).....	..do.....	152	6,533	273	12,114
	Roll or web-fed:					
3555118	Rotary letterpress.....	..do.....	82	7,664	52	8,177
3555119	Newspaper high-speed rotary and flat-bed and high-speed platen...	..do.....	229	24,233	(NA)	16,076
	Offset lithographic:					
	Sheet-fed:					
3555121-26	Single color.....	..do.....	831	22,736	660	8,886
3555127	Multicolor.....	..do.....			160	12,549
3555129	Web-fed.....	..do.....	203	10,723	54	2,202
3555132	Gravure, sheet-fed and web-fed.....	..do.....	64	8,057	42	3,197
3555141	Other presses (including proof and rebuilt).....		xxx	10,355	xxx	10,413
35552--	Other printing trades machinery.....		xxx	153,006	xxx	148,376
	Typesetting machinery and equipment:	No. of complete presses.....				
3555251	Typesetting and typesetting machines.....		2,350	18,428	2,044	16,058
3555255	Matrices.....		xxx	13,284	xxx	11,926
3555259	Other typesetting equipment.....		xxx	(8)	xxx	3,697
3555261	Electrotyping machinery and equipment.....		xxx	1,630	xxx	2,458
3555263	Stereotyping machinery and equipment.....		xxx	3,829	xxx	3,889
3555265	Photoengraving and lithographing equipment (except cameras).....		xxx	4,599	xxx	3,736
3555267	Bookbinding machinery and equipment (including cutting, folding, gathering, inserting, ruling, etc.).....		xxx	19,912	xxx	19,916
3555269	Engravers materials and equipment (including metal plates, wood blocks, lithographic stones, etc.).....		xxx	6,353	xxx	8,320
	Other printing machinery and equipment:					
3555272	Ink rollers and printers' rolls and platen.....		xxx	21,353	xxx	13,444
3555275	Foundry type, rules, leads, slugs, borders, and ornaments.....		xxx	4,524	xxx	4,564
3555281	Parts, attachments, and accessories for printing-trades machinery.....		xxx	33,850	xxx	35,784
3555298	Other printing machinery and equipment.....		xxx	25,264	xxx	24,584
3555000	Printing-trades machinery, not specified by kind.....		xxx	23,439	...	...

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3559---	Special-industry machinery, nec, total.....	.....	xxx	726,437	xxx	611,661
3559111	Chemicals manufacturing industries machinery and equipment.....	.....	xxx	118,458	xxx	102,794
35592--	Foundry machinery and equipment.....	.....	xxx	52,639	xxx	62,480
3559231	Molding machines.....	No. of units	1,261	13,693	1,401	7,074
3559251	Blast cleaning equipment.....	.....	xxx	36,519	xxx	13,383
3559298	Other foundry machinery (including core making machines).....	.....	xxx	2,427	xxx	40,390
3559200	Foundry machinery and equipment, not specified by kind.....	.....	xxx	50,818	xxx	1,653
35593--	Plastics-working machinery and equipment.....	.....	xxx	203	xxx	37,610
3559311	Compression molding machines.....	No. of units	203	2,502	426	3,780
3559331	Extrusion molding machines.....	..do.....	549	7,407	531	5,333
3559351	Injection molding machines.....	..do.....	829	20,416	775	13,577
3559398	Other plastics-working machinery and equipment.....	.....	xxx	16,894	xxx	14,920
3559300	Plastics-working machinery and equipment, not specified by kind.....	.....	xxx	3,599	xxx	...
35594--	Rubber-working machinery and equipment.....	.....	xxx	54,095	xxx	52,521
3559411	Banbury and mill-mixing machinery and warming-up machinery.....	.....	xxx	8,335	xxx	8,002
3559431	Extruding machinery.....	No. of units	180	4,017	179	2,579
3559441	Vulcanizing presses.....	..do.....	1,112	10,224	977	14,981
3559451	Tire-building equipment (except tire molds).....	.....	xxx	5,987	xxx	7,283
3559421	Calendering machines.....	No. of units	21	1,376	xxx	19,676
3559471	Tire recapping and repairing machinery and equipment (including recapping vulcanizers).....	.....	xxx	14,867	xxx	...
3559498	Other rubber-working machinery, excluding tire molds.....	.....	xxx	4,879	xxx	...
3559400	Rubber-working machinery and equipment, not specified by kind.....	.....	xxx	4,410	xxx	...
35595--	Other special-industry machinery and equipment <sup>9</sup> .....	.....	xxx	414,691	xxx	345,987
3559511	Petroleum refinery machinery and equipment.....	.....	xxx	20,672	xxx	18,893
3559531	Tobacco manufacturing machinery and equipment:	.....	.....	.....	.....	.....
3559539	Cigarette-making machines and cigar-making machines.....	No. of units	xxx	14,895	1,117	9,538
3559541	Other tobacco manufacturing machinery and equipment.....	.....	xxx	10,575	xxx	4,876
3559543	Clay working machinery and equipment (brick, tile, and ceramics).....	.....	xxx	3,827	xxx	7,892
3559545	Cement-making machinery and equipment other than cement kilns.....	.....	xxx	6,660	xxx	4,272
3559549	Concrete products machinery and equipment:	.....	(NA)	6,660	(NA)	11,762
3559551	Concrete block machines.....	.....	xxx	16,434	xxx	10,902
3559555	Other concrete-products machinery and equipment (including concrete-pipe making machines).....	.....	xxx	10,938	xxx	16,581
3559562	Glass-making machinery and equipment:	.....	xxx	10,504	xxx	...
3559571	Bottle-forming machines.....	.....	xxx	24,174	xxx	21,753
3559575	Other glass-making machinery and equipment other than lehrs.....	.....	xxx	1,352	xxx	27,134
3559581	Shoemaking and repairing machinery and equipment (including sole stitching machines).....	.....	xxx	39,635	xxx	...
3559585	Cotton-ginning machinery and equipment:	.....	xxx	27,446	xxx	193,575
3559589	Cotton gins.....	.....	xxx	7,969	xxx	1,362
3559591	Other cotton ginning machinery and equipment.....	.....	xxx	2,485	xxx	5,764
3559592	Metal cleaning, degreasing, finishing, drying machinery and equipment.....	.....	xxx	14,606	xxx	11,683
3559593	Electronic tube-making machinery and equipment.....	.....	xxx	4,859	xxx	10,269
3559595	Other special industrial machinery and equipment (including incandescent lamp making, paint-making, stone-working, hat-making, leather-working, jewelers, pharmaceutical, ammunition, and explosives loading machinery and equipment, etc.).....	.....	xxx	187,636	xxx	...
3559599	Electric nonmetallic processing industrial furnaces, ovens, kilns, and lehrs.....	.....	xxx	10,024	xxx	...
3559600	Fuel-fired kilns (cement, wood, and chemical processing).....	.....	xxx	35,736	xxx	...
3559600	Other nonmetallic processing industrial furnaces, ovens, kilns, and lehrs.....	.....	xxx	10,024	xxx	...
3559600	Other special industry machinery and equipment, not specified by kind.....	.....	xxx	35,736	xxx	10,269

NA Not available.

xxx Not applicable.

<sup>1</sup>Includes power-driven machines for use by hotels, restaurants, institutions, meat markets, butcher shops, food-product stores, and similar commercial organizations.<sup>2</sup>For combination slicing and wrapping machines the number and value of slicing units are included with slicing machines and the number and value of wrapping units with wrapping machines.<sup>3</sup>Figures for "Combing machines" are included with "Other fiber-to-fabric machinery."<sup>4</sup>Represents "Drawing frames" only. Figures for "Roving frames" are included with "Other fiber-to-fabric machinery."<sup>5</sup>Figures for grinders are combined with those for deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, savealls, and recovery room equipment.<sup>6</sup>Included with other paper and paperboard converting equipment.<sup>7</sup>Includes other pulp mill machinery.<sup>8</sup>Figures for "Other typesetting equipment" valued at less than \$1 million is included with "Typesetting and typesetting machines."<sup>9</sup>Some equipment in this product class may be leased rather than sold outright. For leased equipment, estimates of the value of products produced were reported. These estimates approximate the value of the products had they been sold outright and are based on market values of the products, tax or insurance valuations, etc.

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

See footnotes at end of table.

See footnotes at end of table.



Table 6B.--Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years--Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Woodworking machinery, except home workshops (3551)--Continued</u>	1958 <sup>1</sup>	1954	<u>Chemical manufacturing industries machinery and equipment (35591):</u>			<u>Plastics-working machinery and equipment, excluding patterns and molds (35593):</u>		
West North Central.....	3,128	2,477	United States, total:			United States, total:		
South Atlantic.....	19,374	2,345	1958.....	118,458		1958.....	50,818	
East South Central.....	11,119	6,721	1957.....	145,937		1957.....	55,373	
Tennessee.....	2,867	2,238	1956.....	130,423		1956.....	58,707	
West South Central.....	3,098	1,387	1955.....	96,848		1955.....	45,357	
West.....	44,024	41,599	1954.....	102,794		1954.....	37,610	
Washington.....	7,739	( <sup>2</sup> )	1953.....	108,349		1947.....	19,666	
Oregon.....	13,355	9,955	1952.....	105,194				1958 <sup>1</sup>
California.....	22,876	24,249	1951.....	94,907		New England.....	18,203	
			1950.....	64,131		Massachusetts.....	6,918	
			1947.....	87,375		Connecticut.....	6,333	
				1958 <sup>1</sup>	1954	Middle Atlantic.....	12,189	
Printing presses (35551):	Value of shipments		New England.....	7,907	4,930	New York.....	3,195	
United States, total:			Middle Atlantic.....	56,507	47,958	New Jersey.....	6,663	
1958.....	94,201		New York.....	19,946	11,149	Pennsylvania.....	2,331	
	1958 <sup>1</sup>		New Jersey.....	11,522	13,580			
New England.....	7,530		Pennsylvania.....	25,039	23,229	North Central.....	18,733	
Middle Atlantic.....	37,607		North Central.....	31,355	31,941	Ohio.....	14,285	
New Jersey.....	17,441		Ohio.....	16,228	16,879	Michigan.....	1,637	
All other divisions.....	49,064		Illinois.....	10,530	11,329	Pacific.....	1,208	
			Michigan.....	3,488	( <sup>2</sup> )	California.....	1,208	
<u>Other printing-trades machinery, including parts and attachments (35552):</u>	Value of shipments		South.....	19,355	14,350			
United States, total:			Maryland.....	3,719	( <sup>2</sup> )			
1958.....	153,006		Texas.....	4,232	( <sup>3</sup> )	<u>Rubber-working machinery and equipment, excluding tire molds (35594):</u>	Value of shipments	
	1958 <sup>1</sup>		West.....	3,334	3,615	United States, total:		
			California.....	3,167	( <sup>2</sup> )	1958.....	54,095	
New England.....	14,830					1957.....	63,286	
Massachusetts.....	9,209		<u>Foundry machinery and equipment, excluding patterns and molds (35592):</u>	Value of shipments		1956.....	67,794	
Middle Atlantic.....	76,153		United States, total:			1955.....	56,942	
New York.....	47,787		1958.....	52,639		1954.....	52,521	
New Jersey.....	16,505		1957.....	69,164		1947.....	46,445	
Pennsylvania.....	11,861		1956.....	68,746				1958 <sup>1</sup>
East North Central.....	49,221		1955.....	64,821				1954
Ohio.....	15,001		1954.....	62,480		Northeast.....	13,938	14,231
Illinois.....	28,492		1947.....	34,431		Pennsylvania.....	2,439	2,726
Michigan.....	4,384			1958 <sup>1</sup>	1954	East North Central.....	27,056	28,867
West North Central.....	2,341		Northeast.....	4,098	10,997	Ohio.....	23,526	27,991
South.....	5,903		Pennsylvania.....	3,353	2,296	West North Central.....	1,250	1,322
Kentucky.....	1,285		North Central.....	38,137	45,739	Minnesota.....	1,131	( <sup>3</sup> )
West.....	4,558		Ohio.....	8,442	15,628	South and West.....	11,851	( <sup>3</sup> )
California.....	4,468		Illinois.....	13,282	9,221	California.....	10,035	6,614
			Wisconsin.....	3,760	6,293			
			South and West.....	10,404	( <sup>3</sup> )			

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual companies figures: 35511, Pennsylvania, Ohio, Minnesota, Iowa, and Missouri; 35512, Massachusetts, Connecticut, Kansas, Virginia, and Texas; 35513, Connecticut, Kansas, Oklahoma, and Colorado; 35521, Maine, New Hampshire, Ohio, Illinois, and Missouri; 35522, Ohio, Illinois, Michigan, and Tennessee; 35531, New York, New Jersey, Minnesota, Missouri, Georgia, Alabama, Mississippi, and Louisiana; 35551, New Hampshire, Massachusetts, Connecticut, New York, Pennsylvania, Ohio, and Illinois; 35552, Rhode Island, Connecticut, Wisconsin, Kansas, Virginia, and North Carolina; 35591, Massachusetts, Delaware, and Kentucky; 35592, Indiana, Michigan, Maryland, Tennessee, and California; 35593, New Hampshire, Vermont, and Indiana; and 35594, Connecticut and Indiana.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

<sup>4</sup>Represents total value of shipments of textile machinery (product class 35521) and parts and attachments for textile machinery (product class 35522). Separate data for these product classes are not available for these years.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost	Quantity	Delivered cost
				(\$1,000)		(\$1,000)
	INDUSTRY 3551—FOOD-PRODUCTS MACHINERY					
	Materials, parts, containers, and supplies, total.....		xxx	152,418	xxx	138,404
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short ton.....	30,574	4,738	22,872	4,401
331212	Sheet and strip.....	do.....	31,214	4,466	28,809	4,562
331213	Plates.....	do.....	21,940	2,338	16,790	2,271
331215	Structural shapes.....	do.....	7,245	1,303	9,256	1,405
331217	Wire and wire products.....	do.....	417	215	540	186
331219	All other carbon steel mill shapes and forms.....	do.....	2,268	533	7,107	1,896
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	2,292	828	2,898	1,393
331225	All other alloy steel mill shapes and forms.....	do.....	1,393	751	2,962	1,276
331231	Stainless steel mill shapes and forms.....	do.....	8,315	11,448	10,515	12,189
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 pounds.....	1,995	563	2,783	1,479
363111	Insulated wire and cable (report copper content in quantity column).....	do.....				
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....	1,314	989		
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	do.....	2,236	1,244	1,978	883
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	251	217		
	Primary metals and scrap:					
331251	Pig iron.....	Short ton.....	4,601	313	6,490	351
941011	Iron and steel scrap (excluding home scrap).....	do.....	5,128	217	4,145	166
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	do.....	18,357	6,726	20,584	7,285
332311	Steel.....	do.....	7,668	2,209	3,574	2,134
336121	Copper and copper-base alloy.....	1,000 pounds.....	2,900	2,206	3,321	2,726
336111	Aluminum and aluminum-base alloy.....	do.....	2,849	2,252	2,843	2,402
361419	Fractional electric horsepower motors, excluding timing motors, synchronous and subsynchronous (under 1 hp.).....	Number.....	66,085	2,042	(NA)	2,843
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.....	24,421	5,028	36,000	4,749
359311	Ball and roller bearings.....		xxx	1,835	xxx	1,565
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	71,568	xxx	74,948
973000	Materials, etc., not specified by kind <sup>5</sup> .....		xxx	28,389	xxx	7,294
	INDUSTRY 3552—TEXTILE-INDUSTRIES MACHINERY					
	Materials, parts, containers, and supplies, total.....		xxx	136,984	xxx	113,250
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short ton.....	29,473	6,982	29,040	5,738
331212	Sheet and strip.....	do.....	16,621	3,574	14,133	3,474
331213	Plates.....	do.....	2,746	564	3,108	436
331215	Structural shapes.....	do.....	8,067	1,457	3,783	847
331217	Wire and wire products.....	do.....	5,132	3,611	5,247	3,181
331219	All other carbon steel mill shapes and forms.....	do.....	2,795	838	2,850	687
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	1,882	827	1,570	578
331225	All other alloy steel mill shapes and forms.....	do.....	673	596	870	369
331231	Stainless steel mill shapes and forms.....	do.....	1,769	2,823	2,699	3,606
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	1,000 pounds.....	2,110	643	1,984	1,075
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	1,541	825		
	Primary metals and scrap:					
331251	Pig iron.....	Short ton.....	16,961	1,074	23,738	1,383
941011	Iron and steel scrap (excluding home scrap).....	do.....	12,059	515	22,483	804

See footnotes at end of table.



## SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

35D-21

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954				
			Quantity	Delivered cost	Quantity	Delivered cost			
				(\$1,000)		(\$1,000)			
INDUSTRY 3552—TEXTILE-INDUSTRIES MACHINERY—Continued									
Castings (rough and semifinished, received from foundry):									
332011	Iron (gray and malleable).....	Short ton.....	125,351	9,108	51,415	15,870			
336111	Aluminum and aluminum-base alloy.....	1,000 pounds.....	1,555	1,370	1,569	1,139			
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	Number.....	17,124	2,483	24,000	2,076			
359311	Ball and roller bearings.....	.....	xxx	3,188	xxx	2,579			
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	84,936	xxx	61,490			
973000	Materials, etc., not specified by kind <sup>5</sup> .....	.....	xxx	11,570	xxx	7,918			
INDUSTRY 3553—WOODWORKING MACHINERY									
Materials, parts, containers, and supplies, total.....						xxx	76,883	xxx	61,278
Mill shapes and forms (except castings):									
Carbon steel:									
331211	Bars and bar shapes.....	Short ton.....	9,095	2,273	8,677	1,700			
331212	Sheet and strip.....	.....do.....	11,914	2,131	3,922	778			
331213	Plates.....	.....do.....	9,288	1,044	2,422	507			
331215	Structural shapes.....	.....do.....	4,351	658	3,894	688			
331217	Wire and wire products.....	.....do.....	284	117	2,569	650			
331219	All other carbon steel mill shapes and forms.....	.....do.....	1,183	418					
Alloy steel (except stainless):									
331221	Bars and bar shapes.....	.....do.....	1,771	1,017	1,772	966			
331225	All other alloy steel mill shapes and forms.....	.....do.....	726	471	1,423	686			
331231	Stainless steel mill shapes and forms.....	.....do.....	102	121	39	53			
Copper and copper-base alloy:									
335111	Bare wire for electrical conduction only.....	1,000 pounds.....	94	116	1,599	890			
363111	Insulated wire and cable (report copper content in quantity column).....	.....do.....	118	94					
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	.....do.....	95	176					
Aluminum and aluminum-base alloy mill shapes and forms:									
335257	Sheet, plate and foil.....	.....do.....	74	49	620	418			
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	.....do.....	746	298					
Primary metals and scrap:									
331251	Pig iron.....	Short ton.....	6,501	397	7,935	427			
941011	Iron and steel scrap (excluding home scrap).....	.....do.....	6,338	241	7,820	299			
Castings (rough and semifinished, received from foundry):									
332011	Iron (gray and malleable).....	.....do.....	211,221	3,492	14,934	4,443			
332311	Steel.....	.....do.....	2,128	1,251	2,385	911			
336121	Copper and copper-base alloy.....	1,000 pounds.....	101	576	398	242			
336111	Aluminum and aluminum-base alloy.....	.....do.....	4,717	1,886	3,807	1,767			
339111	Iron and steel forgings.....	Short ton.....	479	882	xxx	xxx			
361412	Fractional horsepower electric motors (under 1 horsepower) timing motors, synchronous and subsynchronous.....	Number.....	3,818	88	46,000	1,060			
361419	All other fractional horsepower electric motors.....	.....do.....	33,016	1,080					
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	.....do.....	7,336	1,572	8,000	1,295			
359311	Ball and roller bearings.....	.....	xxx	1,738	xxx	1,675			
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	46,337	xxx	36,195			
973000	Materials, etc., not specified by kind <sup>5</sup> .....	.....	xxx	8,360	xxx	5,628			
INDUSTRY 3554—PAPER-INDUSTRIES MACHINERY									
Materials, parts, containers, and supplies, total.....						xxx	133,212	xxx	79,216
Mill shapes and forms (except castings):									
Carbon steel:									
331211	Bars and bar shapes.....	Short ton.....	9,353	2,241	11,196	2,425			
331212	Sheet and strip.....	.....do.....	1,384	287	1,418	274			
331213	Plates.....	.....do.....	11,129	1,896	12,608	1,604			

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost	Quantity	Delivered cost
				(\$1,000)		(\$1,000)
INDUSTRY 3554—PAPER-INDUSTRIES MACHINERY—Continued						
Mill shapes and forms (except castings)—Continued						
Carbon steel—Continued						
331215	Structural shapes.....	Short ton.....	3,879	818	4,128	615
331217	Wire and wire products.....	....do.....	7,084	4,737	4,522	690
331219	All other carbon steel mill shapes and forms.....	....do.....			3,287	1,081
Alloy steel (except stainless):						
331221	Bars and bar shapes.....	....do.....	2,450	938	2,604	1,269
331225	All other alloy steel mill shapes and forms.....	....do.....	719	592		
331231	Stainless steel mill shapes and forms.....	....do.....	3,757	6,710	1,575	2,453
335119	Copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.) except wire.....	1,000 pounds.....	3,436	4,736	1,706	1,042
Primary metals and scrap:						
331251	Pig iron.....	Short ton.....	58,741	3,647	13,115	775
333111	Copper and copper-base alloy refinery shapes.....	....do.....	598	307	516	303
Scrap (excluding home scrap):						
941011	Iron and steel.....	....do.....	17,516	1,116	18,459	760
941021	Copper and copper-base alloy.....	....do.....	388	224	429	254
Castings (rough and semifinished, received from foundry):						
332011	Iron (gray and malleable).....	....do.....	324,996	9,900	20,265	6,407
332311	Steel.....	....do.....	2,729	2,408	1,924	1,166
336121	Copper and copper-base alloy.....	1,000 pounds.....	978	750	1,823	1,244
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	Number.....	8,924	5,190	xxx	xxx
359311	Ball and roller bearings.....	.....	xxx	3,415	xxx	2,594
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	77,285	xxx	47,469
973000	Materials, etc., not specified by kind <sup>5</sup> .....	.....	xxx	6,015	xxx	6,791
INDUSTRY 3555—PRINTING—TRADES MACHINERY						
Materials, parts, containers, and supplies, total.....						
			xxx	82,552	xxx	69,619
Mill shapes and forms (except castings):						
335119	Copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.) except wire.....	1,000 pounds.....	1,511	1,377	(NA)	1,610
Aluminum and aluminum-base alloy mill shapes and forms:						
335257	Sheet, plate, and foil.....	....do.....	(NA)	282	(NA)	562
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	....do.....	(NA)	327		
Primary metals and scrap:						
331251	Pig iron.....	Short ton.....	2,223	187	2,537	148
941011	Iron and steel scrap (excluding home scrap).....	....do.....	2,810	218	xxx	xxx
Castings (rough and semifinished received from foundry):						
332011	Iron (gray and malleable).....	....do.....	25,656	10,302	28,227	10,142
336121	Copper and copper-base alloy.....	1,000 pounds.....	1,005	762	763	594
336111	Aluminum and aluminum-base alloy.....	....do.....	1,195	1,303	1,898	1,483
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number.....	<sup>r</sup> 17,002	<sup>r</sup> 474	xxx	xxx
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	....do.....	<sup>r</sup> 5,775	<sup>r</sup> 1,620	6,000	724
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	54,110	xxx	41,969
973000	Materials, etc., not specified by kind <sup>5</sup> .....	.....	xxx	11,590	xxx	12,387
INDUSTRY 3559—SPECIAL-INDUSTRY MACHINERY, NEC						
Materials, parts, containers, and supplies, total.....						
			xxx	259,751	xxx	211,148
Mill shapes and forms (except castings):						
Carbon steel:						
331211	Bars and bar shapes.....	Short ton.....	35,466	7,524	48,750	8,837

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 3559--SPECIAL-INDUSTRY MACHINERY, NEC--Continued						
Mill shapes and forms (except castings)--Continued						
Carbon steel--Continued						
331212	Sheet and strip.....	Short ton.....	35,155	6,141	33,609	5,066
331213	Plates.....	do.....	71,611	11,979	66,006	8,488
331215	Structural shapes.....	do.....	18,762	3,304	19,977	2,858
331217	Wire and wire products.....	do.....	3,814	1,170	4,479	1,085
331219	All other carbon steel mill shapes and forms.....	do.....	7,902	2,260	15,048	3,521
Alloy steel (except stainless):						
331221	Bars and bar shapes.....	do.....	4,388	1,605	2,910	1,276
331225	All other alloy steel mill shapes and forms.....	do.....	2,595	1,513	3,644	1,606
331231	Stainless steel mill shapes and forms.....	do.....	7,422	10,886	8,289	10,071
Copper and copper-base alloy:						
363111	Insulated wire and cable (report copper content in quantity column).....	1,000 pounds.....	276	264	250	266
335111	Bare wire for electrical conduction only.....	do.....	82	107	4,860	3,422
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....	4,022	2,892		
Aluminum and aluminum-base alloy mill shapes and forms:						
335257	Sheet, plate and foil.....	do.....	1,676	1,185	883	579
335259	All other mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	1,978	1,799		
Primary metals and scrap:						
331251	Pig iron.....	Short ton.....	19,092	1,297	20,180	1,217
333411	Aluminum and aluminum-base alloy refinery shapes.....	do.....	1,309	677	918	398
Scrap (excluding home scrap):						
941011	Iron and steel.....	do.....	39,183	1,383	35,595	1,313
941031	Aluminum and aluminum-base alloy.....	do.....	1,413	707	670	276
Castings (rough and semifinished, received from foundry):						
332011	Iron (gray and malleable).....	do.....	424,717	8,230	34,031	11,476
332311	Steel.....	do.....	14,361	8,224	15,821	6,959
336121	Copper and copper-base alloy.....	1,000 pounds.....	2,152	1,644	3,968	2,664
336111	Aluminum and aluminum-base alloy.....	do.....	2,615	2,641	2,588	1,779
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number.....	40,161	1,500	(NA)	1,799
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.....	24,197	6,633	21,000	4,410
351921	Diesel and semi-Diesel engines.....	do.....	...	...	xxx	xxx
351911	Gasoline and other carburetor engines.....	do.....	2,949	225	xxx	xxx
359311	Ball and roller bearings.....	do.....	xxx	3,824	xxx	1,492
970099	All other materials and components, parts, containers, and supplies consumed.....	do.....	xxx	138,309	xxx	105,646
973000	Materials, etc., not specified by kind <sup>5</sup> .....	do.....	xxx	31,828	xxx	24,644

<sup>†</sup>Revised.

NA Not available.

<sup>1</sup>In addition, 2,348 short tons of iron castings were produced and consumed in the same establishment.<sup>2</sup>In addition, 4,187 short tons of iron castings were produced and consumed in the same establishment.<sup>3</sup>In addition, 33,491 short tons of iron castings were produced and consumed in the same establishment.<sup>4</sup>In addition, 17,135 short tons of iron castings were produced and consumed in the same establishment.<sup>5</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms".

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3551	FOOD-PRODUCTS MACHINERY (entire industry).....	672	27,715	152,515	18,195	36,304	86,824	268,639	185,816	456,171	7,583
	Establishments with:										
	90% or more specialization.....	564	15,467	83,866	10,376	20,135	48,752	159,801	112,182	274,064	4,451
	75-89% specialization.....	38	6,058	33,683	3,770	7,698	18,477	54,038	36,916	91,139	1,573
35511	Dairy and milk products plant machinery and equipment (primary product class of estab.).....	76	4,179	22,895	2,772	5,344	12,219	52,736	30,648	86,393	1,430
	Establishments with:										
	90% or more specialization....	53	1,798	10,900	1,101	2,129	5,087	29,371	16,175	48,861	(1)
	75-89% specialization.....	8	153	931	101	210	512	2,044	1,721	3,132	(1)
35512	Commercial food-products machinery (primary product class of estab.)..	212	7,667	42,673	5,115	10,173	25,204	65,092	43,916	110,772	1,348
	Establishments with:										
	90% or more specialization....	162	4,260	22,872	2,862	5,507	14,137	38,702	25,368	65,016	923
	75-89% specialization.....	13	1,059	5,513	668	1,436	3,166	7,148	5,163	12,361	(1)
35513	Other industrial food-products machinery (primary product class of estab.).....	265	14,703	81,627	9,405	19,094	45,523	137,304	99,467	234,775	4,437
	Establishments with:										
	90% or more specialization....	185	6,140	33,233	4,160	8,188	19,235	60,704	45,933	106,259	1,221
	75-89% specialization.....	25	3,748	21,292	2,189	4,553	11,303	32,590	24,567	56,852	2,088
3552	TEXTILE MACHINERY (entire industry)....	553	34,313	154,548	25,611	51,206	101,897	214,199	154,182	376,340	8,508
	Establishments with:										
	90% or more specialization.....	489	18,462	82,423	14,265	28,364	55,604	128,098	83,364	211,052	4,111
	75-89% specialization.....	17	9,860	44,125	7,082	14,295	28,400	50,325	47,914	104,359	2,526
35521	Textile machinery (primary product class of estab.).....	177	17,109	80,711	12,204	24,590	51,127	111,316	76,186	190,716	3,488
	Establishments with:										
	90% or more specialization....	102	2,427	11,483	1,751	3,510	7,216	18,332	12,124	28,902	699
	75-89% specialization.....	22	2,840	14,153	2,058	4,274	9,327	25,738	12,097	39,183	626
35522	Parts and attachments for textile machinery (primary product class of estab.).....	286	16,354	70,264	12,721	25,366	48,111	96,792	73,111	174,707	4,770
	Establishments with:										
	90% or more specialization....	217	5,976	24,267	4,968	9,875	17,799	39,044	26,191	65,506	1,131
	75-89% specialization.....	20	1,867	8,167	1,539	3,216	5,330	11,378	12,979	24,121	596
3553	WOODWORKING MACHINERY (entire industry)	257	12,219	63,414	8,036	15,945	36,904	112,936	88,530	214,376	6,924
	Establishments with:										
	90% or more specialization.....	192	4,616	23,609	3,170	6,183	13,919	52,608	39,267	94,335	1,631
	75-89% specialization.....	19	2,876	15,310	2,070	4,131	10,011	25,749	17,300	44,142	1,265
35531	Woodworking machinery, except home workshops (primary product class of estab.).....	188	10,898	56,594	7,087	14,112	32,399	101,324	76,840	190,061	6,642
	Establishments with:										
	90% or more specialization....	132	3,529	18,530	2,372	4,630	10,512	42,387	28,521	71,890	1,381
	75-89% specialization.....	16	2,324	12,743	1,667	3,373	8,235	20,706	12,829	34,662	(D)
35532	Woodworking machinery for home workshops (primary product class of estab.).....	31	1,122	5,757	787	1,551	3,746	9,933	10,063	21,118	(1)
	Establishments with:										
	90% or more specialization....	16	216	982	145	296	654	1,315	2,441	4,680	(1)
3555	PRINTING-TRADES MACHINERY AND EQUIPMENT (entire industry).....	442	21,453	119,575	15,277	30,001	78,005	188,881	111,702	309,797	8,496
	Establishments with:										
	90% or more specialization.....	388	16,689	93,513	11,707	22,578	59,312	146,719	90,640	243,635	5,795
	75-89% specialization.....	21	3,475	19,150	2,609	5,428	14,128	30,561	13,266	46,689	2,301
35551	Printing presses (primary product class of estab.).....	29	8,288	50,761	5,971	12,153	33,350	79,350	51,157	133,796	3,081
	Establishments with:										
	90% or more specialization....	8	3,014	19,673	2,219	4,613	13,472	28,040	17,330	45,616	767
	75-89% specialization.....	11	2,439	14,762	1,705	3,421	8,836	23,675	14,630	42,847	1,329

See footnotes at end of table.



## SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

35D-25

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958—Continued

Industry or product class code	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture, adjusted	Cost of materials	Value of shipments	Capital expend- itures, new
			Number	Payroll	Number	Man-hours	Wages				
35552	PRINTING-TRADES MACHINERY, etc.—Con. Other printing-trades machinery including parts and attachments (primary product class of estab.)..	145	11,789	62,850	8,130	15,623	39,074	97,749	52,842	155,840	4,997
	Establishments with:										
	90% or more specialization....	116	6,589	36,454	4,247	8,341	20,706	54,043	33,636	89,707	2,267
	75-89% specialization.....	15	3,296	15,999	2,441	4,354	11,449	25,703	9,647	38,158	2,376
3559	SPECIAL-INDUSTRY MACHINERY, NEC (entire industry).....	1,048	50,849	273,665	34,042	67,312	163,464	431,117	320,070	761,077	17,449
	Establishments with:										
	90% or more specialization.....	831	27,442	148,982	18,967	37,227	90,724	245,357	181,785	424,624	10,517
	75-89% specialization.....	59	5,253	26,082	3,199	6,301	14,671	43,457	33,487	79,126	1,336
35591	Chemical manufacturing industries machinery and equipment (primary product class of estab.).....	95	10,200	56,518	6,228	12,385	30,090	86,072	64,544	155,884	2,990
	Establishments with:										
	90% or more specialization....	49	1,727	11,127	1,172	2,370	6,066	13,510	9,991	23,856	679
	75-89% specialization.....	12	882	4,640	616	1,247	2,941	8,460	6,189	15,058	(1)
35592	Foundry machinery and equipment excluding patterns and molds (primary product class of estab.)..	62	4,117	23,086	2,511	5,015	12,011	36,441	26,707	64,930	2,065
	Establishments with:										
	90% or more specialization....	45	1,224	7,261	741	1,432	3,614	12,985	9,916	23,583	(1)
	75-89% specialization.....	8	1,246	6,757	699	1,451	3,287	10,306	7,523	18,332	500
35593	Plastics-working machinery and equipment excluding patterns and molds (primary product class of estab.).....	63	2,023	10,507	1,369	2,663	6,297	16,557	13,977	31,013	765
	Establishments with:										
	90% or more specialization....	48	698	3,547	490	913	2,102	7,781	5,558	12,550	(1)
35594	Rubber-working machinery and equipment, excluding tire molds (primary product class of estab.)..	52	4,360	26,071	3,198	6,351	16,495	40,149	28,339	70,058	1,127
	Establishments with:										
	90% or more specialization....	32	1,850	10,592	1,391	2,760	6,908	18,894	11,437	29,815	(1)
	75-89% specialization.....	5	188	1,306	131	278	758	1,980	2,425	4,275	(1)
35595	Other special industry machinery and equipment (primary product class of estab.).....	496	27,755	145,676	18,827	37,128	89,432	231,013	172,058	404,634	8,864
	Establishments with:										
	90% or more specialization....	355	15,620	83,466	10,852	21,240	51,659	142,748	104,773	244,669	5,985
	75-89% specialization.....	37	3,709	17,701	2,211	4,172	9,401	26,517	20,958	48,801	600

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3551—FOOD-PRODUCTS MACHINERY							
Ferrous foundry.....	16	4	3	9	472	13	29	430
Nonferrous foundry (except die casting).....	10	9	1	...	35	(D)	(D)	...
Heat treating and annealing.....	30	28	2	...	74	(D)	(D)	...
Automatic screw machine department.....	14	11	3	...	44	20	24	...
Machine shop.....	223	50	97	76	5,548	123	988	4,437
Tool and die shop.....	53	36	16	1	214	73	(D)	(D)
Foundry pattern shop.....	36	28	8	...	95	46	49	...
Plate or structural fabrication.....	116	35	39	42	2,465	87	385	1,993
Stamping, blanking, and forming.....	82	48	30	4	462	101	252	109
Painting, lacquering, and enameling.....	133	119	14	...	297	193	104	...

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3552—TEXTILE MACHINERY								
Ferrous foundry.....	22	3	3	16	1,658	12	39	1,607
Nonferrous foundry (except die casting).....	12	6	3	3	160	18	31	111
Heat treating and annealing.....	64	48	12	4	305	99	82	124
Automatic screw machine department.....	39	22	9	8	528	46	73	409
Machine shop.....	186	38	78	70	22,018	90	818	21,110
Tool and die shop.....	59	30	23	6	708	72	229	407
Foundry pattern shop.....	35	23	6	6	279	52	48	179
Plate or structural fabrication.....	41	16	17	8	474	38	158	278
Stamping, blanking, and forming.....	77	39	25	13	839	97	222	520
Painting, lacquering, and enameling.....	93	74	16	3	345	125	151	69
INDUSTRY 3553—WOODWORKING MACHINERY								
Ferrous foundry.....	12	2	7	3	306	(D)	(D)	240
Nonferrous foundry (except die casting).....	3	2	...	1	39	(D)	...	(D)
Nonferrous die casting.....	3	1	2	...	87	(D)	(D)	...
Forging.....	2	1	...	1	25	(D)	...	(D)
Electroplating.....	7	3	2	2	80	(D)	(D)	(D)
Heat treating and annealing.....	17	15	2	...	55	(D)	(D)	...
Automatic screw machine department.....	12	8	4	...	56	11	45	...
Machine shop.....	113	14	50	49	3,670	36	515	3,119
Tool and die shop.....	29	14	10	5	334	24	87	223
Foundry pattern shop.....	26	23	2	1	72	33	(D)	(D)
Plate or structural fabrication.....	33	18	14	1	179	51	(D)	(D)
Stamping, blanking, and forming.....	18	10	6	2	149	17	(D)	(D)
Painting, lacquering, and enameling.....	57	49	7	1	163	79	(D)	(D)
INDUSTRY 3554—PAPER-INDUSTRIES MACHINERY								
Ferrous foundry.....	17	...	5	12	1,150	...	56	1,094
Nonferrous foundry (except die casting).....	8	5	3	...	36	8	28	...
Machine shop.....	98	7	33	58	6,917	19	383	6,515
Tool and die shop.....	19	12	5	2	151	33	(D)	(D)
Foundry pattern shop.....	29	19	9	1	178	35	(D)	(D)
Plate or structural fabrication.....	35	18	10	7	709	43	91	575
Painting, lacquering, and enameling.....	45	36	9	...	126	60	66	...
INDUSTRY 3555—PRINTING-TRADES MACHINERY								
Ferrous foundry.....	10	1	2	7	358	(D)	(D)	334
Nonferrous foundry (except die casting).....	7	5	2	...	25	(D)	(D)	...
Heat treating and annealing.....	20	18	2	...	41	(D)	(D)	...
Automatic screw machine department.....	20	14	4	2	131	21	(D)	(D)
Machine shop.....	110	16	37	57	6,705	38	335	6,332
Tool and die shop.....	33	13	16	4	346	29	151	166
Foundry pattern shop.....	20	13	6	1	136	24	(D)	(D)
Plate or structural fabrication.....	20	11	6	3	203	18	55	130
Stamping, blanking, and forming.....	21	15	5	1	94	35	(D)	(D)
Painting, lacquering, and enameling.....	54	35	19	...	197	54	143	...
INDUSTRY 3559—SPECIAL-INDUSTRY MACHINERY, NEC								
Ferrous foundry.....	34	3	10	21	1,478	10	120	1,348
Nonferrous foundry (except die casting).....	22	10	8	4	253	23	78	152
Heat treating and annealing.....	51	39	8	4	310	61	65	184
Automatic screw machine department.....	28	21	6	1	137	48	(D)	(D)
Machine shop.....	395	80	155	160	19,832	215	1,622	17,995
Tool and die shop.....	89	45	35	9	723	90	294	339
Foundry pattern shop.....	60	51	7	2	245	95	(D)	(D)
Plate or structural fabrication.....	184	50	73	61	4,698	116	726	3,856
Stamping, blanking, and forming.....	73	41	25	7	619	93	215	311
Painting, lacquering, and enameling.....	161	130	27	4	4,028	194	250	3,584

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below

	Industry					
	3551	3552	3553	3554	3555	3559
Total number of establishments in the industry.....	672	553	257	202	442	1,048
Number of establishments completing the metalworking operations inquiry including establishments that reported none.....	590	483	226	190	362	927
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	85-90	90-95	90-95	over 95	95-90	85-90

D Withheld to avoid disclosing figures for individual companies.



# General Industrial Machinery and Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3561—Pumps, Air and Gas Compressors, and Pumping Equipment
- 3562—Ball and Roller Bearings
- 3564—Blowers, Exhaust and Ventilating Fans
- 3565—Industrial Patterns
- 3566—Mechanical Power Transmission Equipment, Except Ball and Roller Bearings
- 3567—Industrial Process Furnaces and Ovens
- 3569—General Industrial Machinery and Equipment, not Elsewhere Classified

## 3561—Pumps, Air, and Gas Compressors, and Pumping Equipment

This industry comprises establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use. Establishments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service station use are classified in Industry 3586; and ice making, refrigerating, and air conditioning units in Industry 3585. For a detailed list of products of Industry 3561, refer to table 6A, product codes 3561101 to 3561611.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Pumps and Compressors industry in 1958 totaled \$1,114 million. This included shipments of pumps and compressors (primary products), valued at \$856 million, shipments of other products (secondary products) valued at \$129 million, and miscellaneous receipts of \$130 million.

This industry's shipments of pumps and compressors (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 82 percent. Secondary products shipped by this industry in 1958 consisted mainly of boiler shop products, \$11 million; internal combustion engines, \$13 million; and general industrial machinery, n.e.c., \$10 million.

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 37 percent of the total industry shipments are represented by plants specializing in industrial pumps, and 27 percent in air and gas compressors.

Industry 3561 shipments of pumps and compressors (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$1,002 million shipped by all industries. In 1954, the coverage ratio was 78 percent. Other industries shipping pumps and compressors

(primary products) consisted mainly of Industry 3533, Oil Field Machines and Equipment, \$8 million; and Industry 3494, Valves and Pipe Fittings, \$4 million.

As shown in table 7, important materials consumed by the industry are pig iron and scrap metal consumed in the foundry operations; steel mill shapes, mainly bars and bar shapes, sheet and strips, and plates; nonferrous mill shapes; purchased iron, steel, brass and aluminum castings; iron and steel forgings; Diesel and gasoline engines; ball and roller bearings; and electric motors. In addition, data are also shown for the quantity of castings produced and consumed within the plants classified in this industry. The specific materials shown in table 7 account for 43 percent of the total cost of materials consumed by this industry.

## 3562—Ball and Roller Bearings

This industry comprises establishments primarily engaged in manufacturing ball and roller bearings and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in Industry 3566. For a detailed list of products of Industry 3562, refer to table 6A, product codes 3562112 to 3562451.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3562 from code number 3593 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Ball and Roller Bearings industry in 1958 totaled \$650 million. This included shipments of ball and roller bearings (primary products), valued at \$623 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts of \$16 million.

This industry's shipments of ball and roller bearings (primary products) in 1958 represented 98 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was also 98 percent.

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in complete ball bearings, and 46 percent in complete roller bearings.

Industry 3562 shipments of ball and roller bearings (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$637 million shipped by all industries. In 1954, the coverage ratio was also 98 percent.

As shown in table 7, important materials consumed by the industry are steel mill shapes, mainly bars and bar shapes; and purchased iron, steel, and brass castings. The specific materials shown in table 7 account for 58 percent of the total cost of materials consumed by this industry.



3564—Blowers, Exhaust and Ventilating Fans

This industry comprises establishments primarily engaged in manufacturing blowers, and exhaust and ventilating fans for general industrial, commercial, and household use. Establishments primarily engaged in manufacturing complete air conditioning units are classified in Industry 3585, and free air circulating fans for use on desks, pedestals, or wall brackets in Industry 3634. For a detailed list of products of Industry 3564, refer to table 6A, product codes 3564111 to 3564251.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Blowers and Fans Industry in 1958 totaled \$272 million. This included shipments of blowers and fans (primary products), valued at \$199 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts of \$31 million.

This industry's shipments of blowers and fans (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was also 83 percent. Secondary products shipped by this industry in 1958 consisted mainly of heating equipment (except electric), \$5 million; and refrigeration machinery, \$7 million.

Industry 3564 shipments of blowers and fans (primary products) in 1958 represented 79 percent (coverage ratio) of these products valued at \$253 million shipped by all industries. In 1954, the coverage ratio was 76 percent. Industry 3433, Nonelectric Heating Equipment reported shipments of blowers and fans valued at \$7 million.

As shown in table 7, important materials consumed by the industry are steel mill shapes, mainly sheet and strip; nonferrous mill shapes; purchased iron, steel, brass and aluminum castings; ball and roller bearings; and electric motors. The specific materials shown in table 7 account for 43 percent of the total cost of materials consumed by this industry.

3565—Industrial Patterns

This industry comprises establishments primarily engaged in manufacturing industrial patterns. For a detailed list of products of Industry 3565, refer to table 6A, product codes 3565011 to 3565098.

This is a new industry according to the 1957 edition of the Standard Industrial Classification. Establishments primarily engaged in producing industrial patterns, now classified in Industry 3565, were formerly included in old Industry 3594, Industrial Patterns and Molds, which also included establishments primarily engaged in manufacturing industrial molds. The latter establishments are now classified in Industry 3544, Special Dies and Tools. The composition of the new industry as now constituted is shown in table 1A.

Value of shipments and other receipts of the Industrial Patterns Industry in 1958 totaled \$98 million. This included shipments of industrial patterns (primary products), valued at \$90 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts of \$4 million.

This industry's shipments of industrial patterns (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). Industry 3565 shipments of industrial patterns (primary products) in 1958 represented 74 percent (coverage ratio) of these products valued at \$121 million shipped by all industries.

Plants in many other industries produced a significant quantity of industrial patterns and molds for use in their own establishments. Data for captive foundry pattern departments appear in the metalworking operations table (table 9) for individual industries.

3566—Mechanical Power Transmission Equipment, Except Ball and Roller Bearings

This industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment for industrial machinery. Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in Industry 3714; aircraft power transmission equipment in Industry 3729; and ball and roller bearings in Industry 3562. For a detailed list of products of Industry 3566, refer to table 6A, product codes 3566115 to 3566398.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Establishments primarily engaged in producing plain bearings and bushings (unmounted, machined); and aircraft and related engine and power take-off gears, formerly included in this industry, are now classified, respectively, in Industry 3717, Motor Vehicles and Parts, and Industry 3729, Aircraft Equipment, N.E.C. Establishments primarily engaged in producing railroad car journal bearings, formerly included in Industry 3361, Nonferrous Foundries, are now classified in Industry 3566.

Value of shipments and other receipts of the Power Transmission Equipment Industry in 1958 totaled \$630 million. This included shipments of power transmission equipment (primary products), valued at \$490 million, shipments of other products (secondary products) valued at \$99 million, and miscellaneous receipts of \$42 million.

This industry's shipments of power transmission equipment (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). Important secondary products of this industry consisted of conveyors (\$14 million) and aircraft parts (\$5 million).

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 40 percent of the total industry shipments are represented by plants specializing in speed changers and industrial high speed drives.

Industry 3566 shipments of power transmission equipment (primary products) in 1958 represented 79 percent



(coverage ratio) of these products valued at \$623 million shipped by all industries. Other industries shipping power transmission equipment (primary products) consisted mainly of Industry 3717, Motor Vehicles and Parts, \$14 million; and Industry 3621, Motors and Generators, \$22 million.

As shown in table 7, important materials consumed by the industry are pig iron and scrap metal consumed in foundry operations; steel mill shapes, mainly bars and bar shapes, sheet and strip; purchased iron, steel, brass and aluminum castings; and ball and roller bearings. In addition, data are also shown for the quantity of castings produced and consumed within the plants classified in this industry. The specific materials shown in table 7 account for 56 percent of the total cost of materials consumed by this industry.

### 3567--Industrial Process Furnaces and Ovens

This industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and die-electric heating equipment, and related devices. For a detailed list of products of Industry 3567, refer to table 6A, product codes 3567111 to 3567391.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Establishments primarily engaged in producing non-metallic processing industrial furnaces, ovens, kilns, and lehrs, formerly included in this industry, are now classified in Industry 3559, Special Industry Machinery, N.E.C. Establishments primarily engaged in producing high frequency induction and die-electric heating apparatus, and industrial electric heating units and devices (except heating units for electric furnaces), formerly included in old Industry 3619, Electrical Industrial Apparatus, N.E.C., are now classified in Industry 3567.

Value of shipments and other receipts of the Industrial Furnaces and Ovens Industry in 1958 totaled \$205 million. This included shipments of industrial furnaces and ovens (primary products), valued at \$153 million, shipments of other products (secondary products) valued at \$27 million, and miscellaneous receipts (including a substantial amount of installation work by manufacturing plant employees) of \$25 million.

This industry's shipments of industrial furnaces and ovens (primary products) in 1958 represented 85 percent (specialization ratio) of its total product shipments (primary and secondary).

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 45 percent of the total industry shipments are represented by plants specializing in fuel-fired industrial furnaces and ovens, and 20 percent in electric industrial furnaces and ovens.

Industry 3567 shipments of industrial furnaces and ovens (primary products) in 1958 represented 83 percent

(coverage ratio) of these products valued at \$185 million shipped by all industries.

Many medium and large size furnaces were at one time produced at the factory but erected in the field. In recent years, there has been a gradual tendency toward the factory assembling of many of the furnaces which in previous years were erected in the field. At present, practically all of the furnaces and ovens which are capable of being shipped by flat cars are factory assembled.

Establishments classified in Industry 3567 reported a breakdown of shipments of industrial furnaces and ovens between "Field-assembled" and "Factory-assembled" installations. For \$139 million of industrial furnaces, ovens, and parts reported by establishments classified in Industry 3567, "Field-assembled" installations amounted to \$66 million and "Factory-assembled" installation \$73 million. "Field-assembled" represents installations erected at the site by the manufacturer, either using his own labor force or utilizing local labor under the supervision of the manufacturer's factory personnel.

Many of the components being used in this industry are manufactured by the establishments classified in the industry. However, important exceptions are the burning elements, panel boards and similar types of equipment which are purchased from establishments in other industries.

### 3569--General Industrial Machinery and Equipment, N.E.C.

This industry comprises establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in Industry 3591. For a detailed list of products of Industry 3569, refer to table 6A, product codes 3569011 to 3569098.

Industry 3569 covers a wide range of heterogeneous products such as filters and strainers for internal combustion engines (except automobile engines), hydraulic jacks, packaging and wrapping machines (except food and tobacco), centrifugals and separators (except cream), gas generating equipment, brake burnishing and washing machines, ice crusher machinery, fire hose (except rubber), fire hose dryers and racks, automatic sprinkler systems, general industrial labeling machines, and magnetic separation equipment.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Establishments primarily engaged in producing heat exchangers and steam condensers, formerly included in this industry, are now classified in Industry 3443, Boiler Shop Products.

Value of shipments and other receipts of the General Industry Machinery, N.E.C., Industry in 1958 totaled \$458 million. This included shipments of general industry machinery, n.e.c. (primary products) valued at \$345 million, shipments of other products (secondary products)



valued at \$52 million, and miscellaneous receipts of \$61 million.

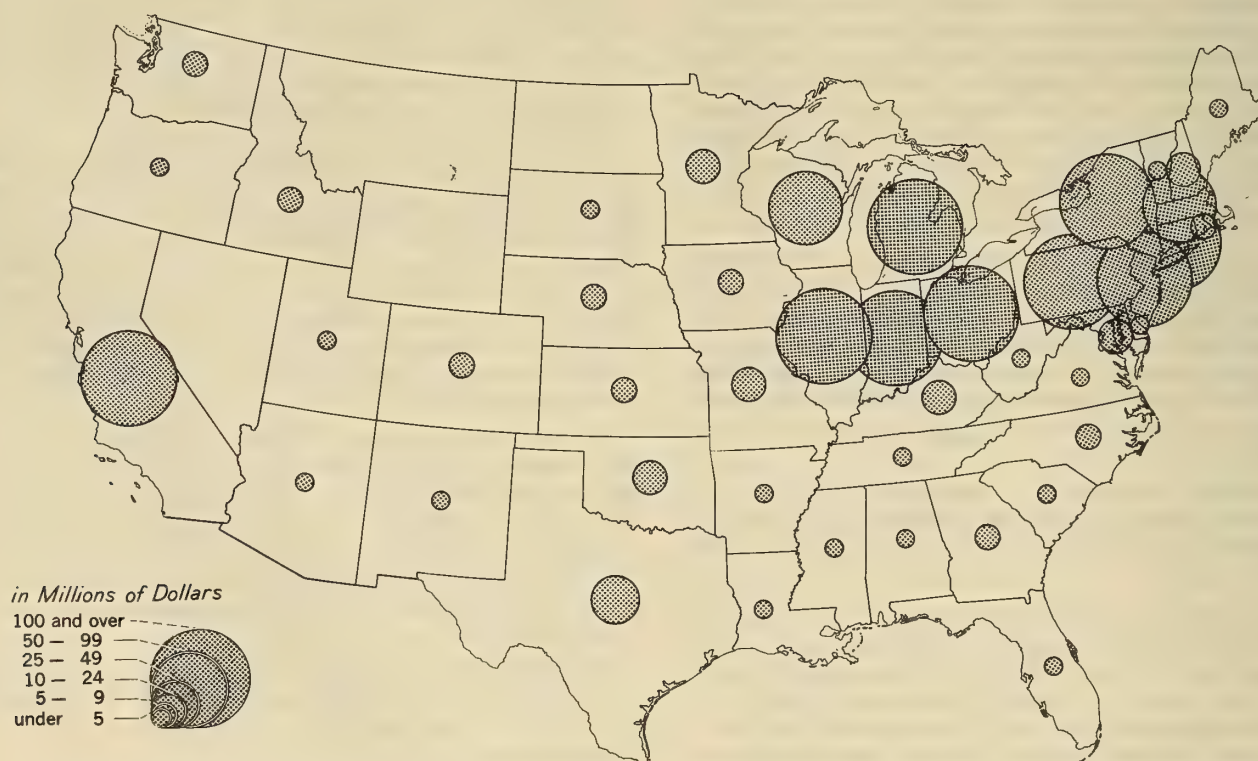
This industry's shipments of general industrial machinery, n.e.c. (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of carburetors, pistons, and other machine shop products, \$5 million; and other industrial food-products machinery, \$5 million.

Industry 3569 shipments of general industrial machinery, n.e.c. (primary products) in 1958 represented 74 percent (coverage ratio) of these products valued at \$584 million shipped by all industries. Other industries shipping general industrial machinery, n.e.c. (primary products) consisted mainly of Industry 3561, Pumps and Compressors, \$10 million; Industry 3559, Special Industry Machinery, N.E.C., \$7 million; and Industry 3443, Boiler Shop Products, \$10 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT: SIC 356

Value Added by Manufacture by State: 1958



Includes Industries 3561, 3562, 3564, 3565, 3566, 3567 and 3569. See Table 2.

Bureau of the Census M-58-D356



## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

35E-5

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3561 (old SIC 3561)	Pumps and compressors:														
	1958.....	530	582	243	60,042	321,509	37,407	74,975	180,146	542,037	535,221	1,114,053	24,678	87	85
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	62,105	317,730	40,799	83,472	188,579	589,595	518,080	1,091,719	29,877	86	83
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	59,507	295,413	40,505	84,206	183,524	576,470	485,832	1,029,401	25,005	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	60,562	286,231	41,152	84,353	177,358	565,597	440,767	963,036	17,967	(NA)	(NA)
	1954.....	463	496	237	60,324	272,632	41,269	82,859	168,613	495,471	460,547	974,810	18,015	82	78
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	61,269	273,140	42,350	90,035	181,588	481,639	440,924	922,563	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	60,992	260,461	42,947	91,443	175,424	475,041	410,404	885,445	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	58,674	237,535	41,883	89,628	160,811	407,324	393,184	800,508	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	44,016	155,104	30,500	60,740	99,308	268,416	232,170	500,586	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	44,714	149,401	30,888	62,036	95,455	261,833	228,355	490,188	(NA)	(NA)	(NA)
	1947.....	425	448	237	56,142	172,857	41,413	85,505	119,763	291,658	279,555	571,213	14,631	81	85
	1939.....	(NA)	369	(NA)	(NA)	(NA)	20,063	(NA)	27,480	84,780	57,034	141,814	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	310	(NA)	(NA)	(NA)	21,668	(NA)	30,910	83,297	60,749	144,046	(NA)	(NA)	(NA)
3562 (old SIC 3593)	Ball and roller bearings:														
	1958.....	86	107	81	46,439	241,160	35,757	67,323	169,117	407,744	231,314	649,640	34,303	98	98
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,506	279,668	43,889	85,802	205,375	480,275	277,374	753,556	36,312	98	97
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	55,441	278,613	45,166	92,745	214,101	467,706	286,762	742,120	38,528	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	52,650	263,527	43,185	92,678	204,922	422,846	275,876	681,119	27,452	(NA)	(NA)
	1954.....	83	102	81	49,720	214,088	39,974	78,233	159,813	329,393	207,624	543,622	27,828	98	98
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	58,503	251,056	48,772	99,627	197,633	401,370	231,429	632,799	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	59,803	239,855	50,204	102,983	191,139	396,614	217,988	614,602	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	59,644	239,127	51,048	111,663	198,352	388,475	237,258	625,733	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	48,256	173,022	40,854	85,973	140,942	282,397	171,159	453,556	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	42,527	132,766	35,320	67,185	103,836	213,479	121,768	335,247	(NA)	(NA)	(NA)
	1947.....	78	94	74	52,174	153,333	45,075	91,323	125,711	259,060	106,524	365,584	21,872	94	96
	1939 <sup>10</sup> .....	(NA)	58	(NA)	(NA)	(NA)	19,164	(NA)	27,219	77,497	27,989	105,486	(NA)	(NA)	(NA)
3564 (old SIC 3564)	Blowers and fans:														
	1958.....	199	207	104	15,947	82,457	10,980	21,356	50,322	145,050	121,646	271,629	5,569	83	79
	1954.....	208	214	106	18,125	80,850	13,724	27,349	54,033	153,366	124,415	279,693	5,873	83	76
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,384	76,098	12,174	26,489	51,135	143,384	87,253	230,637	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,450	63,864	10,588	22,680	42,859	124,517	74,866	199,383	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,293	63,485	11,168	23,914	41,031	121,409	75,289	196,698	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,048	43,604	8,961	20,682	28,493	78,803	55,533	134,336	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,940	44,290	10,009	20,818	29,448	80,883	55,423	136,306	(NA)	(NA)	(NA)
	1947.....	187	192	93	14,794	44,202	11,087	23,389	30,329	84,429	56,287	140,716	3,551	75	78
	1939.....	(NA)	89	(NA)	(NA)	(NA)	4,069	(NA)	5,563	17,474	12,168	29,642	(NA)	(NA)	(NA)
	1937 <sup>11</sup> .....	(NA)	42	(NA)	(NA)	(NA)	3,997	(NA)	5,845	17,534	12,731	30,265	(NA)	(NA)	(NA)
3565 (3594 pt.)	Industrial patterns <sup>12</sup> :														
	1958.....	1,170	1,174	96	8,870	54,746	7,683	13,950	45,370	78,108	20,726	98,343	3,214	95	74
3566 (old SIC 3566)	Power transmission equipment <sup>12</sup> :														
	1958.....	449	470	236	41,782	226,101	29,762	57,537	143,812	384,372	230,817	630,303	21,719	83	79
3567 (old SIC 3567)	Industrial furnaces and ovens <sup>12</sup> :														
	1958.....	197	201	89	10,288	57,394	5,774	11,671	26,859	96,450	101,814	204,835	2,853	85	83
3569 (old SIC 3569)	General industry machinery, nec <sup>12</sup> :														
	1958.....	r <sub>568</sub>	r <sub>584</sub>	r <sub>209</sub>	r <sub>28,014</sub>	r <sub>159,915</sub>	r <sub>16,068</sub>	r <sub>31,784</sub>	r <sub>75,622</sub>	r <sub>281,423</sub>	r <sub>189,847</sub>	r <sub>458,280</sub>	r <sub>17,347</sub>	r <sub>87</sub>	r <sub>74</sub>

NA Not available. r Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

Footnotes continued on next page.



## MANUFACTURES—INDUSTRY STATISTICS

Footnotes for Table 1—35E

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3561	498,011
3562	335,101
3564	151,272

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3561	485,725	392,862	3566	212,769	(NA)
3562	221,793	202,051	3567	92,736	(NA)
3564	104,786	110,552	3569	176,949	(NA)
3565	19,982	(NA)			

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3561	1,055,333	890,873	3566	605,562	(NA)
3562	639,126	537,151	3567	193,334	(NA)
3564	250,302	261,825	3569	1440,030	(NA)
3565	97,489	(NA)			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>"Pumps and Compressors" was formerly included with the discontinued classification "Pumps (hand and power), pumping equipment, and air compressors." Separate figures are, therefore, not available prior to 1937.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>"Blowers and Fans" and "Mechanical Stokers" were formerly included with the discontinued classification "Machinery, nec." Separate figures are, therefore, not available prior to 1937.

<sup>12</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the 1958 figures for this industry are not comparable with those for earlier years. Hence, figures for this industry for earlier years are not shown. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Number of establishments		Number of employees	Adjusted value added by manufacture (\$1,000)	Number of establishments		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3565—Industrial patterns, total.....	1,174	96	8,870	78,108	xxx	xxx	xxx	xxx
Old Industry 3594—Industrial patterns and molds..	1,168	95	8,817	77,678	2,046	246	22,159	196,253
All other Industries.....	6	1	53	430	xxx	xxx	xxx	xxx
New Industry 3566—Power transmission equipment, total.....	470	236	41,782	384,372	r xxx	xxx	r xxx	xxx
Old Industry 3566—Power transmission equipment...	460	231	41,565	382,582	r 510	265	r 149,063	r 464,171
Old Industry 3361—Nonferrous castings.....	8	5	(D)	(D)	(2)	(2)	(2)	(2)
All other Industries.....	2	...	(D)	(D)	xxx	xxx	xxx	xxx
New Industry 3567—Industrial furnaces and ovens, total.....	201	89	10,288	96,450	r xxx	xxx	r xxx	xxx
Old Industry 3567—Industrial furnaces and ovens..	156	64	8,181	80,687	r 165	70	r 8,703	r 84,645
Old Industry 3619—Electrical industrial apparatus, nec.....	44	24	(D)	(D)	(2)	(2)	(2)	(2)
All other Industries.....	1	1	(D)	(D)	xxx	xxx	xxx	xxx
New SIC 3569—General industry machinery, nec.....	r 584	r 209	r 28,014	r 281,423	r xxx	xxx	r xxx	xxx
Old SIC 3569—General industry machinery, nec...	r 584	r 209	r 28,014	r 281,423	r 628	244	r 36,460	r 348,667

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.

<sup>2</sup>These totals may vary slightly from the totals previously published for these industries.

<sup>3</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.



## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

35E-7

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3561	Pumps and compressors, total.....	582	243	60,042	321,509	37,407	74,975	180,146	542,037	1,114,053	24,678	60,324	498,011	56,142
	New England.....	29	12	3,594	18,823	2,109	4,321	10,333	30,682	59,710	1,742	2,624	22,884	3,306
	Massachusetts...	16	6	1,678	9,030	962	2,017	5,180	12,766	27,311	(2)	(3)	(3)	(3)
	Middle Atlantic...	111	49	19,384	102,450	12,643	25,564	62,043	162,390	369,847	10,874	21,196	170,018	20,818
	New York.....	42	15	9,570	49,284	6,052	11,905	28,375	78,082	171,701	7,384	9,190	74,592	7,940
	New Jersey.....	24	13	5,409	28,764	3,437	7,031	17,194	45,824	124,147	1,366	7,610	64,553	7,934
	Pennsylvania....	45	21	4,405	24,402	3,154	6,628	16,474	38,484	73,999	2,124	4,394	30,872	4,944
	East North Central	192	92	24,839	136,023	14,883	29,402	71,486	226,783	434,588	8,481	23,196	193,321	21,810
	Ohio.....	46	24	9,004	47,538	5,678	10,910	26,602	77,768	144,981	3,080	6,559	51,076	7,214
	Indiana.....	27	10	2,341	11,358	1,493	2,894	6,288	21,314	46,981	572	1,911	16,141	2,540
	Illinois.....	53	25	5,751	30,867	3,626	7,501	17,471	67,708	122,841	1,853	6,809	61,222	6,640
	Michigan.....	35	16	4,116	25,071	1,971	3,828	10,106	24,814	53,609	1,381	4,921	41,265	2,635
	Wisconsin.....	31	17	3,627	21,189	2,115	4,269	11,019	35,179	66,176	1,605	2,995	23,614	2,781
	West North Central	41	15	3,001	14,718	2,072	4,077	9,420	27,788	54,772	576	4,298	28,883	2,683
	Iowa.....	9	3	662	3,260	461	859	1,962	5,523	10,329	(2)	1,239	6,364	1,108
	Missouri.....	11	5	820	3,829	515	981	2,292	8,245	17,041	(2)	388	5,744	1,204
	South Atlantic....	29	9	550	1,857	389	763	1,317	2,939	8,358	(2)	446	3,314	(D)
	Georgia.....	6	3	150	528	100	177	324	1,068	4,134	(2)	130	1,112	(D)
	Florida.....	14	4	277	813	209	413	686	1,355	2,710	(2)	(3)	(3)	(3)
	East South Central	7	2	362	1,913	241	460	1,228	2,636	5,429	(2)	672	4,272	(D)
	West South Central	60	23	2,620	13,444	1,779	3,662	7,673	27,079	54,766	1,083	2,451	23,435	(D)
	Texas.....	36	13	1,323	7,153	935	1,989	4,242	14,903	29,348	830	1,002	9,623	717
	Mountain.....	9	4	341	1,821	205	447	925	4,972	8,326	(2)	149	1,324	(D)
	Colorado.....	6	3	274	1,534	158	350	771	4,637	7,524	(2)	...	...	...
	Pacific.....	104	37	5,535	30,460	3,086	6,279	15,721	56,768	118,237	1,404	5,288	50,558	4,786
	California.....	96	37	5,318	30,320	3,061	6,235	15,608	56,464	117,443	1,379	(3)	(3)	(3)
3562	Ball and roller bearings, total....	107	81	46,439	241,160	35,757	67,323	169,117	407,744	649,640	34,303	49,720	335,101	52,174
	New England.....	23	19	15,460	75,676	12,218	23,572	55,157	129,767	180,319	9,068	15,594	97,974	19,456
	Middle Atlantic...	36	27	12,095	66,153	9,284	18,275	46,419	113,221	185,721	4,622	12,903	94,037	12,548
	Pennsylvania....	15	12	4,942	26,763	3,608	7,074	18,141	50,230	82,977	1,504	5,124	36,026	5,475
	North Central....	36	26	18,432	97,216	13,908	24,695	66,156	162,235	267,435	18,795	20,947	141,757	19,899
	Illinois.....	8	6	1,680	8,783	1,271	2,369	6,215	19,515	29,953	1,726	2,014	15,436	2,359
	Michigan.....	8	5	3,796	21,626	3,234	6,397	12,244	37,289	57,324	3,363	4,089	34,016	3,156
	South.....	5	4	253	1,189	203	460	834	1,526	5,020	(D)	(3)	(3)	(3)
	Pacific.....	7	5	199	926	144	321	551	995	2,145	(D)	(3)	(3)	(3)
	California.....	7	5	199	926	144	321	551	995	2,145	(D)	(3)	(3)	(3)
3564	Blowers and fans, total.....	207	104	15,947	82,457	10,980	21,356	50,322	145,050	271,629	5,569	18,125	151,272	14,794
	New England.....	14	8	2,559	13,093	1,743	3,389	7,931	21,823	38,340	528	638	5,823	3,721
	Middle Atlantic...	44	21	4,051	21,422	2,557	5,122	12,051	36,424	65,138	993	3,456	27,104	2,154
	New York.....	23	10	2,162	11,635	1,701	3,428	8,073	20,341	33,125	530	2,106	15,118	1,894
	New Jersey.....	11	6	1,099	5,889	363	712	1,693	8,193	19,596	(2)	(3)	(3)	(3)
	Pennsylvania....	10	5	790	3,898	493	982	2,285	7,890	12,417	(2)	(3)	(3)	(3)
	East North Central	66	40	6,064	32,197	4,089	7,777	18,935	53,728	107,577	2,845	9,434	81,814	5,862
	Ohio.....	17	10	1,528	7,910	993	1,973	4,705	15,214	29,887	922	3,136	30,809	1,468
	Indiana.....	11	6	1,087	5,053	720	1,267	2,872	7,781	15,613	(2)	(3)	(3)	(3)
	Illinois.....	19	11	1,154	6,082	801	1,661	3,460	10,014	19,972	(2)	1,105	8,160	1,128
	Michigan.....	9	7	2,019	11,690	1,400	2,538	7,149	18,832	37,416	1,153	1,944	16,862	2,245
	Wisconsin.....	10	6	276	1,462	175	338	749	1,887	4,689	(2)	(3)	(3)	(3)
	West North Central	14	8	469	2,231	340	674	1,543	4,127	7,691	(2)	658	4,642	311
	Minnesota.....	5	4	311	1,553	239	486	1,097	2,640	4,963	(2)	(3)	(3)	(3)
	South.....	37	15	1,575	6,883	1,361	2,612	5,570	17,598	33,416	520	2,332	19,473	1,853
	Texas.....	13	5	230	820	192	382	638	1,647	2	(D)	273	1,786	229
	Mountain.....	5	...	22	92	16	28	63	221	478	(2)	23	93	(D)
	Pacific.....	27	12	1,207	6,539	874	1,754	4,229	11,129	18,989	(2)	1,581	12,321	(D)
	California.....	21	10	1,059	5,722	755	1,546	3,583	10,172	17,333	(2)	1,432	11,376	701
3565	Industrial patterns, total.....	1,174	96	8,870	54,746	7,683	13,950	45,370	78,108	98,343	3,214	(4)	(4)	(4)
	New England.....	89	8	516	3,085	448	835	2,541	4,152	5,039	(2)	(4)	(4)	(4)
	Connecticut.....	30	2	163	993	142	277	810	1,438	1,713	(4)	(4)	(4)	(4)
	Middle Atlantic...	253	14	1,608	8,119	1,397	2,568	7,032	12,502	15,892	(2)	(4)	(4)	(4)
	Pennsylvania....	98	8	791	3,639	709	1,264	3,209	5,717	7,213	(2)	(4)	(4)	(4)
	North Central....	620	68	5,768	37,936	4,964	9,015	30,817	51,979	65,271	2,211	(4)	(4)	(4)
	Indiana.....	38	5	363	2,457	324	640	2,124	3,415	4,287	(2)	(4)	(4)	(4)
	Illinois.....	114	11	836	5,559	722	1,384	4,546	7,783	9,858	(2)	(4)	(4)	(4)
	Michigan.....	170	33	2,342	16,492	1,989	3,572	12,954	22,269	27,884	(2)	(4)	(4)	(4)
	Missouri.....	26	1	197	1,270	173	313	1,066	1,999	2,446	(4)	(4)	(4)	(4)
	South Atlantic....	20	3	153	661	130	206	555	978	1,271	(D)	(4)	(4)	(4)
	East South Central	20	1	105	604	94	176	525	1,020	1,296	(D)	(4)	(4)	(4)
	West South Central	32	...	102	545	98	183	535	1,016	1,267	(D)	(4)	(4)	(4)
	West.....	140	2	618	3,798	552	967	3,365	6,481	8,307	(D)	(4)	(4)	(4)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3566	Power transmission equipment, total...	470	236	41,782	226,101	29,762	57,537	143,812	384,372	630,303	21,719	(4)	(4)	(4)
	New England.....	45	24	4,035	19,677	2,917	5,382	12,315	37,233	56,631	804	(4)	(4)	(4)
	Massachusetts....	27	17	2,863	14,166	2,045	3,750	8,867	28,019	42,993	582	(4)	(4)	(4)
	Connecticut.....	11	6	1,122	5,270	883	1,564	3,277	8,866	13,404	(2)	(4)	(4)	(4)
	Middle Atlantic...	102	52	10,247	52,880	6,837	12,907	31,742	59,439	143,563	6,236	(4)	(4)	(4)
	New York.....	47	18	2,656	14,237	1,818	3,769	8,830	21,267	36,843	1,247	(4)	(4)	(4)
	New Jersey.....	19	10	1,549	7,956	968	1,888	4,508	14,030	23,826	746	(4)	(4)	(4)
	Pennsylvania....	36	24	6,042	30,687	4,051	7,250	18,404	45,225	82,894	4,243	(4)	(4)	(4)
	East North Central	200	98	21,576	122,525	15,752	30,593	80,077	212,415	339,994	12,203	(4)	(4)	(4)
	Ohio.....	47	28	3,849	21,552	2,777	5,460	13,246	37,629	60,087	1,719	(4)	(4)	(4)
	Indiana.....	18	9	5,835	32,723	4,513	8,476	23,364	54,775	83,291	3,994	(4)	(4)	(4)
	Illinois.....	75	37	5,789	31,814	4,191	8,356	20,671	56,748	95,688	2,588	(4)	(4)	(4)
	Michigan.....	40	12	2,380	14,277	1,707	3,369	9,585	23,316	38,500	1,012	(4)	(4)	(4)
	Wisconsin.....	20	12	3,723	22,159	2,564	4,932	13,211	39,947	62,428	2,890	(4)	(4)	(4)
	West North Central	31	19	1,098	5,780	867	1,765	4,019	9,498	16,025	(2)	(4)	(4)	(4)
	Minnesota.....	12	8	471	2,445	376	777	1,783	4,387	7,253	(2)	(4)	(4)	(4)
	Missouri.....	14	7	305	1,926	251	508	1,266	3,105	5,204	(2)	(4)	(4)	(4)
	South.....	44	21	2,999	14,664	2,039	4,017	8,424	25,071	43,967	1,136	(4)	(4)	(4)
	Texas.....	13	7	706	2,944	530	964	1,881	4,828	8,558	(2)	(4)	(4)	(4)
	Mountain.....	5	2	126	619	91	179	394	1,030	1,895	(2)	(4)	(4)	(4)
	Pacific.....	43	20	1,701	9,976	1,259	2,694	6,841	18,603	27,928	872	(4)	(4)	(4)
3567	Industrial furnaces and ovens, total...	201	89	10,288	57,394	5,774	11,671	26,859	96,450	204,835	2,853	(4)	(4)	(4)
	New England.....	21	11	978	4,719	697	1,397	2,935	7,399	13,262	(2)	(4)	(4)	(4)
	Massachusetts....	13	7	707	3,277	526	1,022	2,190	5,284	8,954	(2)	(4)	(4)	(4)
	Middle Atlantic...	61	31	4,022	21,418	2,299	4,547	10,548	31,104	70,892	862	(4)	(4)	(4)
	New York.....	14	8	651	3,762	404	790	1,784	6,570	10,427	(2)	(4)	(4)	(4)
	New Jersey.....	25	12	1,230	6,682	915	1,865	4,396	8,200	20,859	(2)	(4)	(4)	(4)
	Pennsylvania....	22	11	2,141	10,974	980	1,892	4,368	16,334	39,606	(2)	(4)	(4)	(4)
	East North Central	67	30	4,298	25,782	2,093	4,319	10,245	49,112	102,638	1,544	(4)	(4)	(4)
	Ohio.....	24	11	1,501	9,039	627	1,239	3,183	20,229	52,297	(2)	(4)	(4)	(4)
	Illinois.....	17	10	1,096	6,651	578	1,226	2,763	10,457	18,733	(2)	(4)	(4)	(4)
	West North Central	13	7	525	2,897	358	771	1,607	4,863	10,136	(2)	(4)	(4)	(4)
	Minnesota.....	6	4	341	1,909	221	503	1,046	2,676	6,850	(2)	(4)	(4)	(4)
	South.....	9	2	76	343	43	78	139	458	930	(2)	(4)	(4)	(4)
	Mountain.....	4	...	22	91	20	39	81	52	262	(D)	(4)	(4)	(4)
	Pacific.....	26	8	367	2,144	264	520	1,304	3,462	6,715	(D)	(4)	(4)	(4)
	California.....	20	6	305	1,753	217	428	1,044	2,689	5,199	(2)	(4)	(4)	(4)
3569	General industry machinery, nec, total.....	r584	r209	r28,014	r159,915	r16,068	r31,784	r75,622	r281,423	r458,280	r17,347	(4)	(4)	(4)
	New England.....	54	26	5,683	28,538	3,050	6,164	13,038	48,638	87,465	3,958	(4)	(4)	(4)
	Massachusetts....	29	16	2,336	11,993	1,619	3,292	6,707	21,077	35,908	2,975	(4)	(4)	(4)
	Connecticut.....	15	5	2,537	12,511	940	1,825	4,269	20,537	40,766	1,318	(4)	(4)	(4)
	Middle Atlantic...	r152	r54	r6,532	r37,719	r3,814	r7,492	r18,036	r58,278	r103,594	r4,230	(4)	(4)	(4)
	New York.....	65	17	3,442	20,463	1,729	3,370	8,415	28,416	47,019	3,085	(4)	(4)	(4)
	New Jersey.....	55	24	1,474	8,766	1,060	2,228	4,973	13,719	23,576	(2)	(4)	(4)	(4)
	Pennsylvania....	r32	r13	r1,616	r8,490	r1,025	r1,894	r4,648	r16,143	r32,999	r799	(4)	(4)	(4)
	East North Central	174	68	7,536	41,429	5,047	9,832	24,303	76,565	133,220	2,150	(4)	(4)	(4)
	Ohio.....	41	13	2,133	11,066	1,261	2,337	5,588	20,642	33,434	595	(4)	(4)	(4)
	Illinois.....	63	28	2,834	16,818	1,960	3,989	10,211	30,076	53,850	758	(4)	(4)	(4)
	Wisconsin.....	23	11	1,293	7,403	922	1,815	4,530	15,842	26,767	(2)	(4)	(4)	(4)
	West North Central	28	14	868	4,196	593	1,247	2,574	9,158	17,387	(2)	(4)	(4)	(4)
	Minnesota.....	10	7	449	2,112	320	664	1,276	3,875	7,494	(2)	(4)	(4)	(4)
	Nebraska.....	3	2	107	521	68	147	309	822	1,569	(2)	(4)	(4)	(4)
	South Atlantic....	34	10	1,307	5,649	927	1,479	3,290	13,583	23,395	(2)	(4)	(4)	(4)
	Maryland.....	10	1	209	936	147	295	560	2,200	3,662	(2)	(4)	(4)	(4)
	Florida.....	9	3	171	816	94	175	351	1,151	2,028	(2)	(4)	(4)	(4)
	East South Central	13	6	471	2,478	340	683	1,598	4,469	6,742	(2)	(4)	(4)	(4)
	Tennessee.....	4	2	123	482	91	184	293	667	1,359	(D)	(4)	(4)	(4)
	West South Central	33	9	1,014	5,144	680	1,577	2,957	6,522	23,298	(2)	(4)	(4)	(4)
	Oklahoma.....	8	3	248	949	111	229	382	1,937	3,381	(2)	(4)	(4)	(4)
	Texas.....	20	5	656	3,613	500	1,206	2,263	4,018	19,002	(2)	(4)	(4)	(4)
	West.....	96	22	4,603	34,762	1,617	3,310	9,826	64,210	63,179	5,807	(4)	(4)	(4)
	California.....	85	19	4,032	29,850	1,197	2,351	6,113	57,665	55,332	5,668	(4)	(4)	(4)

Note: Detailed figures may not add to totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. r Revised.

General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees for the employment-size range for that State.



Footnotes for Table 2-35E

- SIC 3561, Pumps and compressors: New England—New Hampshire, 1 (1-19); Rhode Island, 3 (100-249); Connecticut, 9 (1,699); West North Central—Minnesota, 9 (100-249); South Dakota, 1 (1-19); Nebraska, 6 (500-999); Kansas, 5 (500-999); South Atlantic—Delaware, 1 (1-19); Maryland, 4 (20-99); Virginia, 1 (20-99); West Virginia, 2 (1-19); South Carolina, 1 (1-19); East South Central—Kentucky, 2 (20-99); Tennessee, 2 (250-499); Mississippi, 3 (20-99); West South Central—Arkansas, 1 (100-249); Louisiana, 4 (20-99); Oklahoma, 19 (1,000-2,499); Idaho, 1 (20-99); Arizona, 2 (20-99); Pacific—Washington, 3 (1-19); Oregon, 5 (20-99).
- SIC 3562, Ball and roller bearings: New England—New Hampshire, 2 (1,000-2,499); Connecticut, 21 (5,000 and over); Middle Atlantic—New York, 12 (3,949); New Jersey, 9 (3,204); North Central—Ohio, 13 (11,264); Indiana, 5 (1,674); Missouri, 1 (1-19); Kansas, 1 (1-19); South—South Carolina, 3 (20-99); Tennessee, 1 (20-99); Oklahoma, 1 (100-249).
- SIC 3564, Blowers and fans: New England—Massachusetts, 7 (1,193); Connecticut, 7 (1,366); West North Central—Iowa, 2 (20-99); Missouri, 4 (20-99); Nebraska, 1 (20-99); Kansas, 2 (1-19); South Virginia, 1 (1-19); West Virginia, 2 (100-249); North Carolina, 2 (1-19); Georgia, 4 (100-249); Florida, 4 (100-249); Kentucky, 1 (500-999); Tennessee, 1 (1-19); Alabama, 2 (100-249); Arkansas, 2 (20-99); Louisiana, 4 (20-99); Oklahoma, 1 (20-99); Mountain—Colorado, 2 (1-19); Arizona, 2 (1-19); Utah, 1 (1-19); Pacific—Washington 5 (100-249); Oregon, 1 (1-19).
- SIC 3565, Industrial patterns: New England—Maine, 2 (1-19); New Hampshire, 4 (1-19); Massachusetts, 43 (250-499); Rhode Island, 10 (20-99); Middle Atlantic—New York, 92 (500-999); New Jersey, 63 (250-499); North Central—Ohio, 152 (1,348); Wisconsin, 85 (500-999); Minnesota, 18 (20-99); Iowa, 7 (20-99); Nebraska, 1 (1-19); Kansas, 9 (1-19); South Atlantic—Delaware, 2 (1-19); Maryland, 6 (20-99); Virginia, 2 (1-19); West Virginia, 2 (1-19); North Carolina, 5 (1-19); Georgia, 2 (1-19); Florida, 1 (1-19); East South Central—Kentucky, 5 (1-19); Tennessee, 6 (20-99); Alabama, 8 (20-99); Mississippi, 1 (1-19); West South Central—Louisiana, 3 (1-19); Oklahoma, 9 (20-99); Texas, 20 (20-99); West—Colorado, 7 (20-99); Arizona, 3 (1-19); Utah, 1 (1-19); Washington, 10 (20-99); Oregon, 9 (20-99); California, 110 (250-499).
- SIC 3566, Power transmission equipment: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Vermont, 1 (20-99); Rhode Island, 4 (20-99); West North Central—Iowa, 3 (100-249); Kansas, 2 (20-99); South—Maryland, 4 (1,325); Virginia, 3 (100-249); West Virginia, 2 (1-19); North Carolina, 5 (20-99); South Carolina, 1 (20-99); Georgia, 2 (20-99); Florida, 4 (20-99); Kentucky, 2 (250-499); Tennessee, 3 (20-99); Arkansas, 1 (20-99); Louisiana, 2 (20-99); Oklahoma, 2 (20-99); Mountain—Idaho, 1 (1-19); Colorado, 3 (100-249); Arizona, 1 (1-19); Pacific—Washington, 2 (250-499); Oregon, 2 (20-99); California, 39 (1,331).
- SIC 3567, Industrial furnaces and ovens: New England—Rhode Island, 3 (100-249); Connecticut, 5 (100-249); East North Central—Indiana, 4 (500-999); Michigan, 20 (500-999); Wisconsin, 2 (250-499); West North Central—Iowa, 2 (20-99); Missouri, 5 (100-249); South—Virginia, 1 (20-99); West Virginia, 1 (1-19); North Carolina, 1 (1-19); Florida, 1 (1-19); Texas, 5 (20-99); Mountain—Arizona, 3 (20-99); Utah, 1 (1-19); Pacific—Washington, 5 (20-99); Oregon, 1 (1-19).
- SIC 3569, General industry machinery, nec: New England—Maine, 1 (1-19); New Hampshire, 2 (100-249); Vermont, 1 (20-99); Rhode Island, 6 (250-499); East North Central—Indiana, 12 (250-499); Michigan, 35 (500-999); West North Central—Iowa, 3 (1-19); Missouri, 9 (20-99); Kansas, 3 (100-249); South Atlantic—Delaware, 1 (20-99); Virginia, 2 (20-99); West Virginia, 1 (1-19); North Carolina, 4 (500-999); South Carolina, 3 (20-99); Georgia, 4 (100-249); East South Central—Kentucky, 5 (250-499); Alabama, 4 (20-99); West South Central—Arkansas, 2 (20-99); Louisiana, 3 (20-99); West—Idaho, 1 (250-499); Colorado, 1 (1-19); New Mexico, 1 (1-19); Utah, 1 (1-19); Washington, 4 (20-99); Oregon, 3 (20-99).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

Table 3.-Detailed Statistics for the United States: 1958

Item	Pumps and compressors (SIC 3561)	Ball and roller bearings (SIC 3562)	Blowers and fans (SIC 3564)	Industrial patterns (SIC 3565)	Power-transmission equipment (SIC 3566)	Industrial furnaces and ovens (SIC 3567)	General industry machinery, nec (SIC 3569)
Primary product specialization ratio <sup>1</sup> .....	87	98	83	95	83	85	r87
Coverage ratio <sup>2</sup> .....	85	98	79	74	79	83	r74
Number of establishments, total.....	582	107	207	1,174	470	201	r584
With 1-19 employees.....	339	26	103	1,078	234	112	375
With 20-99 employees.....	122	32	70	91	150	66	153
With 100 employees or more.....	121	49	34	5	86	23	r56
Proprietors and working partners.....Number..	194	20	59	1,066	161	44	200
All employees:							
Number (average for the year).....	60,042	46,439	15,947	8,870	41,782	10,288	r28,014
Payroll.....\$1,000..	321,509	241,160	82,457	54,746	226,101	57,394	r159,915
Production workers:							
Number (average for the year).....	37,407	35,757	10,980	7,683	29,762	5,774	r16,068
March.....	39,431	36,590	11,253	8,329	30,715	6,115	r16,273
May.....	37,357	34,299	11,138	7,844	29,557	5,639	r15,902
August.....	36,095	34,388	10,758	7,615	29,024	5,674	r16,198
November.....	36,916	37,768	10,842	7,454	29,860	5,735	r16,001
Man-hours.....1,000..	74,975	67,323	21,356	13,950	57,537	11,671	r31,784
January-March.....do....	20,107	18,178	5,668	3,914	15,205	3,104	r8,095
April-June.....do....	18,675	16,459	5,553	3,262	14,404	2,811	r7,987
July-September.....do....	17,099	14,069	4,769	3,140	13,077	2,721	r7,485
October-December.....do....	18,893	18,660	5,325	3,198	14,751	2,982	r7,973
Wages.....\$1,000..	180,146	169,117	50,322	45,370	143,812	26,859	r75,622
Cost of materials, etc., total.....do....	535,221	231,314	121,646	20,726	230,817	101,814	r189,847
Materials, parts, containers, and supplies consumed.....do....	467,082	208,638	99,467	16,440	193,457	87,072	r152,021
Cost of resales.....do....	49,496	9,521	16,860	744	18,048	9,078	12,898
Fuels consumed.....do....	4,645	3,833	868	405	3,356	516	r1,484
Electricity purchased.....do....	4,915	5,608	1,152	598	4,266	751	r2,248
Contract work.....do....	9,083	3,714	3,299	2,539	11,691	4,397	21,196
Value of shipments (including resales), total.....do....	1,114,053	649,640	271,629	98,343	630,303	204,835	r458,280
Value of resales.....do....	58,720	10,514	21,327	854	24,741	11,501	18,250
Value added by manufacture, adjusted...do....	542,037	407,744	145,050	78,108	384,372	96,450	r281,423
Manufacturers' inventories:							
Beginning of year, total.....do....	313,242	171,527	59,587	5,025	153,831	39,130	93,318
Finished products.....do....	109,178	53,632	13,068	528	61,235	4,739	27,789
Work-in-process.....do....	132,779	71,344	22,115	2,061	53,791	17,733	39,755
Materials, supplies, fuel, etc.....do....	71,285	46,551	24,404	2,436	38,805	16,658	25,774
End of year, total.....do....	267,001	156,863	51,180	6,144	133,627	30,264	103,993
Finished products.....do....	99,372	45,402	11,900	541	53,044	3,800	24,403
Work-in-process.....do....	105,790	68,992	18,350	2,539	46,868	12,101	55,851
Materials, supplies, fuel, etc.....do....	61,839	42,469	20,930	3,064	33,715	14,363	23,739
Expenditures for plant and equipment, total.....do....	28,616	36,768	5,931	3,124	24,349	3,685	18,011
New, total.....do....	24,678	34,303	5,569	3,214	21,719	2,853	r17,347
New structures and additions to plant.....do....	6,843	14,060	1,875	1,255	4,395	883	6,454
New machinery and equipment.....do....	17,835	20,243	3,694	1,959	17,324	1,970	r10,893
Used plant and equipment.....do....	3,938	2,465	( <sup>3</sup> )	625	2,630	832	626

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.



## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

35E-11

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3561	Pumps and compressors:											
	Number of establishments.....	582	179	79	81	78	44	62	30	20	7	2
	All employees:											
	Number.....	60,042	367	548	1,110	2,650	3,076	9,812	10,546	14,279	17,654	(D)
	Payroll.....\$1,000..	321,509	1,571	2,636	5,329	13,399	16,730	51,406	57,163	79,287	93,988	(D)
	Value added, adjusted..do....	542,037	3,470	5,750	11,203	21,820	31,202	95,381	97,785	140,329	135,097	(D)
	Value of shipments.....do....	1,114,053	7,728	11,743	20,592	48,473	65,125	190,257	199,017	252,438	318,680	(D)
	Capital expend., new...do....	24,678	(1)	(1)	558	926	974	3,604	2,399	6,000	9,399	(D)
3562	Ball and roller bearings:											
	Number of establishments.....	107	9	4	13	19	13	13	11	12	8	5
	All employees:											
	Number.....	46,439	16	31	186	613	922	2,116	3,887	8,723	13,037	16,908
	Payroll.....\$1,000..	241,160	83	136	795	3,403	4,547	10,878	20,001	45,899	69,305	86,113
	Value added, adjusted..do....	407,744	603	163	1,504	4,885	8,680	20,251	34,101	91,053	115,149	131,355
	Value of shipments.....do....	649,640	971	342	2,749	10,647	15,273	35,419	56,238	140,986	176,031	210,984
	Capital expend., new...do....	34,303	(1)	(1)	(1)	1,830	(1)	817	2,959	13,814	4,189	10,109
3564	Blowers and fans:											
	Number of establishments.....	207	47	23	33	38	32	20	7	4	3	...
	All employees:											
	Number.....	15,947	108	153	458	1,170	2,280	2,965	2,570	2,557	3,686	...
	Payroll.....\$1,000..	82,457	481	717	2,262	5,842	11,472	15,307	13,649	12,450	20,277	...
	Value added, adjusted..do....	145,050	1,290	1,310	3,647	11,490	19,801	26,836	26,679	21,337	32,660	...
	Value of shipments.....do....	271,629	2,398	2,811	6,403	21,425	36,130	52,257	45,254	42,816	62,135	...
	Capital expend., new...do....	5,569	(1)	(1)	(1)	(1)	953	816	1,475	948	610	...
3565	Industrial patterns:											
	Number of establishments.....	1,174	670	250	158	77	14	5	...	...	...	...
	All employees:											
	Number.....	8,870	1,291	1,663	2,087	2,272	911	646	...	...	...	...
	Payroll.....\$1,000..	54,746	6,684	9,600	13,722	15,392	6,073	3,275	...	...	...	...
	Value added, adjusted..do....	78,108	13,747	14,469	18,322	19,319	7,887	4,364	...	...	...	...
	Value of shipments.....do....	98,343	17,988	18,294	23,025	23,847	9,628	5,561	...	...	...	...
	Capital expend., new...do....	3,214	1,435	514	(1)	(1)	(1)	(1)	...	...	...	...
3566	Power transmission equipment:											
	Number of establishments.....	470	103	60	71	106	44	42	24	13	7	...
	All employees:											
	Number.....	41,782	214	421	1,043	3,401	3,181	6,531	8,296	8,375	10,320	...
	Payroll.....\$1,000..	226,101	904	2,206	5,365	17,794	16,301	36,074	44,113	45,929	57,415	...
	Value added, adjusted..do....	384,372	2,234	3,793	8,276	28,989	27,828	61,604	80,751	80,499	90,398	...
	Value of shipments.....do....	630,303	3,648	6,635	14,568	48,481	43,909	97,421	129,809	151,238	134,594	...
	Capital expend., new...do....	21,719	(1)	(1)	665	1,322	1,050	3,032	2,990	5,779	6,424	...
3567	Industrial furnaces and ovens:											
	Number of establishments.....	201	42	31	39	44	22	12	9	2	...	...
	All employees:											
	Number.....	10,288	83	208	546	1,408	1,645	1,746	4,652	(D)	...	...
	Payroll.....\$1,000..	57,394	373	1,092	2,979	8,047	8,312	10,226	26,365	(D)	...	...
	Value added, adjusted..do....	96,450	827	1,604	4,472	13,001	14,600	16,548	45,398	(D)	...	...
	Value of shipments.....do....	204,835	1,841	3,956	10,673	24,635	28,808	31,079	103,843	(D)	...	...
	Capital expend., new...do....	2,853	(1)	(1)	(1)	(1)	(1)	628	1,513	(D)	...	...
3569	General industry machinery, nec:											
	Number of establishments.....	r584	195	82	98	98	55	36	r11	6	3	1
	All employees:											
	Number.....	r28,014	362	553	1,382	3,007	4,014	5,561	r3,921	4,099	r5,115	...
	Payroll.....\$1,000..	r159,915	1,656	2,561	7,387	16,832	20,678	30,029	r23,190	24,111	r33,471	...
	Value added, adjusted..do....	r281,423	4,255	4,909	12,924	30,679	36,444	54,280	r37,848	55,108	r44,976	...
	Value of shipments.....do....	r458,280	7,457	8,358	24,596	54,110	64,952	96,325	r70,670	59,440	r72,372	...
	Capital expend., new...do....	r17,347	(1)	(1)	606	1,169	1,030	1,112	r949	6,186	r5,700	...

r Revised.

1 Less than \$500 thousand.

**Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954**

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3561	Pumps and compressors.....1958..	1,114,053	855,661	128,521	129,871	87	1,001,840	855,661	146,179	85
	1954..	974,810	681,676	149,617	143,517	82	867,400	681,676	185,724	78
3562	Ball and roller bearings.....1958..	649,640	622,896	10,654	16,090	98	636,777	622,896	13,881	98
	1954..	543,622	523,037	9,104	11,481	98	533,796	523,037	10,759	98
3564	Blowers and fans.....1958..	271,629	199,295	41,512	30,822	83	252,899	199,295	53,604	79
	1954..	279,693	209,915	43,413	26,365	83	274,045	209,915	64,130	76
3565	Industrial patterns.....1958..	98,343	90,078	4,395	3,870	95	121,279	90,078	31,201	74
3566	Power transmission equipment...1958..	630,303	489,658	99,084	41,561	83	622,741	489,658	133,083	79
3567	Industrial furnaces and ovens..1958..	204,835	152,831	26,661	25,343	85	184,845	152,831	32,014	83
3569	General industry machinery, nec.....1958..	r458,280	r344,724	52,079	r61,477	r87	r467,391	r344,724	122,667	r74

<sup>r</sup>Revised.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Pumps and compressors industry	Pumps and compressors (SIC 3561)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,114,053	xxx	xxx
	Primary products.....	855,661	146,179	1,001,840
35011	Industrial pumps, except hydraulic fluid power.....	234,227	<sup>1</sup> 38,399	272,626
35012	Hydraulic fluid power pumps and motors.....	80,272	7,892	88,164
35013	Domestic water systems and pumps.....	63,268	<sup>2</sup> 6,457	69,725
35014	Air and gas compressors, except refrigeration.....	223,436	<sup>3</sup> 30,485	253,921
35015	Other pumps and compressors.....	94,985	<sup>4</sup> 30,491	125,476
35016	Parts and attachments for pumps and compressors.....	148,442	<sup>5</sup> 31,724	180,166
35010	Pumps and compressors, nsk.....	11,031	731	11,762
	Secondary products.....	128,521	xxx	xxx
3321-	Gray iron foundries.....	2,528	xxx	xxx
3443-	Boiler shop products.....	11,169	xxx	xxx
34941	Metal valves for piping systems.....	4,322	xxx	xxx
34943	Plumbing and heating valves and specialties.....	3,991	xxx	xxx
34944	Other metal valves and fittings.....	8,323	xxx	xxx
3519-	Internal combustion engines.....	12,799	xxx	xxx
3533-	Oil field machines and equipment.....	6,156	xxx	xxx
3559-	Special industry machinery, nec.....	2,216	xxx	xxx
35690	General industrial machinery, nec.....	10,081	xxx	xxx
3585-	Refrigeration machinery.....	8,029	xxx	xxx
35892	Service industry machines and parts.....	2,080	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.....	5,223	xxx	xxx
	Other secondary products.....	<sup>6</sup> 51,594	xxx	xxx
	Miscellaneous receipts.....	129,871	xxx	xxx
	Contract and commission work.....	5,400	xxx	xxx
	Sales of products bought and resold.....	58,720	xxx	xxx
	Installation work by manufacturing plant employees.....	3,555	xxx	xxx
	Research and development.....	1,532	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	38,389	xxx	xxx
	Other.....	22,275	xxx	xxx
Prod. class code	Ball and roller bearings industry	Ball and roller bearings (SIC 3562)	Other industries	All industries
	Total shipments and receipts of the industry.....	649,640	xxx	xxx
	Primary products.....	622,896	13,881	636,777
35621	Ball bearings, complete.....	(D)	(D)	289,073
35622	Roller bearings, complete.....	(D)	(D)	269,316
35623	Mounted bearings.....	(D)	(D)	34,984
35624	Ball and roller bearings parts and components.....	40,570	499	41,069
35620	Ball and roller bearings, nsk.....	(D)	(D)	2,335
	Secondary products.....	10,654	xxx	xxx
3566-	Mechanical power transmission equipment.....	2,229	xxx	xxx
	Other secondary products.....	8,425	xxx	xxx
	Miscellaneous receipts.....	16,090	xxx	xxx
	Contract and commission work.....	799	xxx	xxx
	Sales of products bought and resold.....	10,514	xxx	xxx
	Scrap and salable refuse.....	4,169	xxx	xxx
	Other.....	608	xxx	xxx
Prod. class code	Blowers and fans industry	Blowers and fans (SIC 3564)	Other industries	All industries
	Total shipments and receipts of the industry.....	271,629	xxx	xxx
	Primary products.....	199,295	53,604	252,899
35641	Industrial fans and blowers.....	135,338	<sup>7</sup> 35,298	170,636
35642	Dust collection, air purification equipment and air washers.....	53,704	<sup>8</sup> 16,360	70,064
35640	Blowers and fans, nec.....	10,253	1,946	12,199
	Secondary products.....	41,512	xxx	xxx
34336	Other heating equipment, except electrical.....	5,185	xxx	xxx
3585-	Refrigeration machinery.....	6,903	xxx	xxx
3634-	Electrical housewares and fans.....	3,137	xxx	xxx
	All other secondary products.....	<sup>9</sup> 26,287	xxx	xxx
	Miscellaneous receipts.....	30,822	xxx	xxx
	Contract and commission work.....	1,334	xxx	xxx
	Sales of products bought and resold.....	21,327	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	4,347	xxx	xxx
	Other.....	3,814	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Industrial patterns industry	Industrial patterns (SIC 3565)	Gray iron foundries (SIC 3321)	Steel foundries (SIC 3323)	Aluminum castings (SIC 3361)	Other industries	All industries
	Total shipments and receipts of the industry.....	98,343	xxx	xxx	xxx	xxx	xxx
35650	Industrial patterns.....	90,078	7,964	5,919	6,109	<sup>10</sup> 11,209	121,279
	Secondary products.....	4,395	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	3,870	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	1,509	xxx	xxx	xxx	xxx	xxx
	Sales of products bought and resold.....	854	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	929	xxx	xxx	xxx	xxx	xxx
	Other.....	578	xxx	xxx	xxx	xxx	xxx
Prod. class code	Power-transmission equipment industry	Power-transmission equipment (SIC 3566)	Other industries		All industries		
	Total shipments and receipts of the industry.....	630,303	xxx		xxx		
	Primary products.....	489,658	133,083		622,741		
35661	Plain bearings.....	46,391	<sup>11</sup> 20,656		67,047		
35662	Speed changers, industrial high speed drives and gears.....	191,273	<sup>12</sup> 42,878		234,151		
35663	Other mechanical power transmission equipment.....	241,270	<sup>13</sup> 69,148		310,418		
35660	Mechanical power transmission equipment, nec.....	10,724	401		11,125		
	Secondary products.....	99,084	xxx		xxx		
33620	Copper and copper-base alloy castings.....	2,488	xxx		xxx		
3531-	Construction machinery.....	3,781	xxx		xxx		
3535-	Conveyors.....	14,132	xxx		xxx		
35595	Other special industry machinery and equipment.....	4,108	xxx		xxx		
37291	Other aircraft parts and auxiliary equipment.....	4,596	xxx		xxx		
	Other secondary products.....	<sup>14</sup> 69,979	xxx		xxx		
	Miscellaneous receipts.....	41,561	xxx		xxx		
	Contract and commission work.....	12,384	xxx		xxx		
	Sales of products bought and resold.....	24,741	xxx		xxx		
	Scrap and salable refuse and miscellaneous repair work.....	4,436	xxx		xxx		
Prod. class code	Industrial furnaces and ovens industry	Industrial furnaces and ovens (SIC 3567)	Other industries		All industries		
	Total shipments and receipts of the industry.....	204,835	xxx		xxx		
	Primary products.....	152,831	32,014		184,845		
35671	Electric industrial furnaces and ovens, metal processing.....	32,897	2,768		35,665		
35672	Fuel fired industrial furnaces and ovens, metal processing.....	67,754	<sup>15</sup> 8,599		76,353		
35673	High frequency induction and dielectric heating equipment and parts and attachments and components.....	47,125	<sup>16</sup> 19,630		66,755		
35670	Industrial furnaces and ovens, nsk.....	5,055	1,017		6,072		
	Secondary products.....	26,661	xxx		xxx		
35595	Other special industrial machinery and equipment.....	7,668	xxx		xxx		
	Other secondary products.....	<sup>17</sup> 18,993	xxx		xxx		
	Miscellaneous receipts.....	25,343	xxx		xxx		
	Contract and commission work.....	1,011	xxx		xxx		
	Sales of products bought and resold.....	11,501	xxx		xxx		
	Installation work by manufacturing plant employees.....	6,968	xxx		xxx		
	Scrap and salable refuse and miscellaneous repair work.....	5,494	xxx		xxx		
	Other.....	369	xxx		xxx		

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	General industry machinery, nec, industry	General industry machinery, nec (SIC 3569)	Pumps and com- pressors (SIC 3561)	Special industry machinery, nec (SIC 3559)	Boiler shop products (SIC 3443)	Other industries	All industries
	Total shipments and receipts of the industry.....	r458,280	xxx	xxx	xxx	xxx	xxx
3504	General industrial machinery, nec.....	r344,724	10,081	7,194	9,980	1895,412	r467,391
	Secondary products.....	52,079	xxx	xxx	xxx	xxx	xxx
35513	Other industrial food product machinery.....	4,502	xxx	xxx	xxx	xxx	xxx
35990	Carburetors, pistons, and other machine shop products.....	5,159	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	1842,418	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	r61,477	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	8,606	xxx	xxx	xxx	xxx	xxx
	Sales of products bought and resold.....	18,250	xxx	xxx	xxx	xxx	xxx
	Installation work by manufacturing plant employees.....	3,318	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	7,071	xxx	xxx	xxx	xxx	xxx
	Other (including research and development work).....	r24,232	xxx	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

<sup>1</sup>Includes \$4,285 thousand shipped by Industry 3494, Valves and Pipe Fittings. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3511, Steam Engines and Turbines; Industry 3589, Service Industry Machines, NEC; and Industry 3621, Motors and Generators.

<sup>2</sup>Includes \$2,145 thousand shipped by Industry 3522, Farm Machinery and Equipment.

<sup>3</sup>Includes the following industries which had shipments of \$2 million or more, but which are withheld to avoid disclosing individual company figures: Industry 3443, Boiler Shop Products; Industry 3519, Internal Combustion Engines; Industry 3585, Refrigeration Machinery; and Industry 3741, Locomotives and Parts.

<sup>4</sup>Includes \$8,365 thousand shipped by Industry 3533, Oil Field Machines and Equipment. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3511, Steam Engines and Turbines; Industry 3612, Transformers; Industry 3729, Aircraft Equipment, NEC.

<sup>5</sup>Includes the following industries which had shipments of \$2 million or more, but which are withheld to avoid disclosing individual company figures: Industry 3519, Internal Combustion Engines; and Industry 3729, Aircraft Equipment, NEC.

<sup>6</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: Product class 30692, Rubber hose and tubing; 34980, Fabricated pipe and fittings; 35228, All other farm machinery and equipment; 35316, Mixers, pavers, and related equipment, excluding parts; 35422, Presses, including forging presses; 36442, Electric conduit and conduit fittings; 37291, Other aircraft parts and auxiliary equipment; and 37292, Guided missile components and subassemblies, nec.

<sup>7</sup>Includes \$7,471 thousand shipped by Industry 3433, Nonelectric heating equipment; \$2,605 thousand shipped by Industry 3444, Sheet-Metal Work; and \$2,974 thousand shipped by Industry 3621, Motors and Generators. In addition, the following industries had shipments which totaled \$2 million or more, but are withheld to avoid disclosing individual company figures: Industry 3511, Steam Engines and Turbines; and Industry 3585, Refrigeration Machinery.

<sup>8</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: Industry 3559, Special Industry Machinery, NEC; Industry 3566, Power Transmission Equipment; Industry 3585, Refrigeration Machinery.

<sup>9</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 34941, Metal valves for piping systems; 35421, Punching, shearing, bending, and forming machines; 35663, Other mechanical power-transmission equipment.

<sup>10</sup>Includes \$2,770 thousand shipped by Industry 3369, Nonferrous Castings, NEC; and \$2,239 thousand shipped by Industry 3544, Special Dies and Tools.

<sup>11</sup>Includes \$13,563 thousand shipped by Industry 3717, Motor Vehicles and Parts. In addition, Industry 3722 had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures.

<sup>12</sup>Includes \$22,252 thousand shipped by Industry 3621, Motors and Generators. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3511, Steam Engines and Turbines; and Industry 3662, Radio, TV Communication Goods.

<sup>13</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: Industry 3562, Brass, Bronze, Copper Castings; Industry 3532, Mining Machinery and Equipment; Industry 3535, Conveyors; Industry 3564, Blowers and Fans; Industry 3599, Machine Shops; Industry 3717, Motor Vehicles and Parts; and Industry 3722, Aircraft Engines and Parts.

<sup>14</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: Product class 35230, Steel castings; 35112, Steam, gas, and hydraulic turbines and parts, steam engines and parts; 35424, Parts for metal forming machine tools and rebuilt metal forming machinery; 35623, Mounted bearings; 35642, Dust collection and air purification equipment and air washers; and 37175, Parts and accessories for passenger cars, trucks and busses shipped to other than motor vehicle manufacturers.

<sup>15</sup>Includes Industry 3441, Fabricated Structural Steel, which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures.

<sup>16</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: Industry 3449, Miscellaneous Metal Work, NEC; and Industry 3629, Electric Industrial Goods, NEC.

<sup>17</sup>Includes product class 35857, Other refrigeration and air-conditioning equipment including soda fountain and beer dispensing equipment, which had shipments of \$2 million or more but which is withheld to avoid disclosing individual company figures.

<sup>18</sup>Includes \$5,786 thousand shipped by Industry 3494, Valves and Pipe Fittings; \$3,626 thousand shipped by Industry 3551, Food Products Machinery; \$3,796 thousand shipped by Industry 3621, Motors and Generators; \$2,832 thousand shipped by Industry 3741, Locomotives and Parts. In addition, the following industries, had shipments which totaled \$2 million or more, but are withheld to avoid disclosing individual company figures: Industry 3296, Mineral Wool; Industry 3322, Malleable iron foundries; Industry 3498, Fabricated pipe and fittings; Industry 3511, Steam engines and turbines; Industry 3522, Farm Machinery and Equipment; Industry 3535, Conveyors; Industry 3586, Measuring and Dispensing Pumps; Industry 3599, Machine Shops; Industry 3731, Ship Building and Repairing; Industry 3821, Mechanical Measuring Devices.

<sup>19</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: Product class 34231, Mechanics hand service tools; Product class 35196, Other internal combustion engines; Product class 35323, All other mining machinery and equipment; Product class 35540, Paper industries machinery; Product class 35892, Service-industry machines and parts.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3561—	Pumps and compressors, total.....	xxx	1,001,840	xxx	867,400
35611—	Industrial pumps, total.....	xxx	272,626	xxx	228,880
	Reciprocating pumps:				
3561101	Direct-acting steam driven.....	1,923	4,609	4,187	4,381
3561103	Power-operated, other than steam.....	45,485	16,716	19,981	13,529
3561107	Turbine pumps, vertical (including deep-well).....	18,217	36,310	28,955	45,743
	Centrifugal pumps:				
	Single-stage-single suction, close coupled:				
3561112	1" discharge outlet and under.....	166,882	10,575	681,546	128,066
3561114	1-1/2" discharge outlet.....	58,772	7,295		
3561115	2" and 2-1/2" discharge outlet.....	26,783	5,692		
3561116	3" and 4" discharge outlet.....	13,144	6,005		
3561119	Over 4" discharge outlet.....	2,614	2,308		
	Single stage-single suction, frame mounted:				
3561122	1" discharge outlet and under.....	129,573	7,180		
3561123	1-1/2" discharge outlet.....	148,253	11,273		
3561124	2" and 2-1/2" discharge outlet.....	34,515	7,180		
3561125	3" discharge outlet.....	19,915	5,824		
3561126	4" to 6" discharge outlet.....	9,117	7,992		
3561129	Over 6" discharge outlet.....	1,244	2,515		
	Single stage-double suction:				
3561142	Under 4" discharge outlet.....	5,460	2,934		
3561144	4" and 5" discharge outlet.....	4,089	4,969		
3561146	6" discharge outlet.....	1,480	2,491		
3561148	8" to 12" discharge outlet.....	2,004	6,166		
3561149	Over 12" discharge outlet.....	525	5,289		
	Multistage (single or double suction):				
3561152	1-1/2" discharge outlet and under.....	8,273	4,692	107,010	9,565
3561154	2" and 3" discharge outlet.....	4,939	7,685		
3561156	4" and 5" discharge outlet.....	829	4,909		
3561158	6" and 7" discharge outlet.....	535	5,234		
3561159	8" and over discharge outlet.....	222	5,098		
3561162-64	Propeller and mixed flow.....	1,649	5,910	100,213	6,441
3561169	All other centrifugal pumps, including can, etc.....	xxx	44,405		
	Rotary pumps, 100 PSI and under, designed pressure:				
3561172	10 gallons per minute and under, designed capacity.....	422,550	6,876		
3561173	11 to 299 gallons per minute, designed capacity.....	122,712	9,041	xxx	5,047
3561174	300 gallons per minute, and over designed capacity.....	1,616	1,279		
3561175	Rotary pumps, 101 to and including 250 PSI, designed pressure (all capacities)..	12,334	4,250		
3561176	Rotary pumps, 251 to and including 500 PSI, designed pressure (all capacities)..	27,000	3,100		
3561179	Rotary pumps, over 500 PSI, designed pressure (all capacities).....	6,759	1,641	xxx	80,044
3561100	Industrial pumps, nsk.....	xxx	15,183		
35612—	Hydraulic fluid power pumps and motors, and vacuum pumps.....	xxx	88,164	xxx	82,446
3561281	Gear type.....	399,036	19,192	xxx	69,905
3561283	Vane type.....	129,887	18,586		
3561285-87	Piston type.....	42,026	17,744		
3561298	Other industrial pumps, except vacuum.....	xxx	20,513		
3561291	Vacuum pumps (except dry vacuum and laboratory).....	42,325	12,129	234,908	12,541
35613—	Domestic water systems and pumps.....	xxx	69,725	xxx	80,044
3561320	Domestic water systems and pumps (including pump jacks and cylinders):				
(part and)	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	167,656	xxx	80,044
3561330-60	As reported on Census Annual Form MA-35G, total <sup>1</sup> .....	xxx	166,474	xxx	74,909
	Domestic water systems:				
	Summary by type.....				
	Jet.....	694,970	63,975	721,225	71,216
	Non-jet.....	335,263	25,687	2510,436	246,277
	Convertible jet.....	95,080	7,611	167,427	13,596
	Submersible.....	186,994	13,997	(2)	(2)
	Summary by horsepower or capacity.....				
	Deep well (except submersible).....	77,633	16,680	43,362	11,343
	Jet.....	694,970	63,975	721,225	71,216
	1/3 hp. and under.....	167,986	15,821	3310,881	332,647
	1/2 hp.....	152,409	13,849	281,185	28,555
	3/4 to 1 hp.....	25,397	1,649	73,877	5,480
	Over 1 hp.....	67,870	5,266	131,528	12,622
		51,203	5,339	63,939	7,968
		7,939	1,595	11,841	2,485

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3561--- 3561320 (part and) 3561330-60	Pumps and compressors—Continued Domestic water systems and pumps (including pump jacks and cylinders—Continued As reported on Census Annual Form MA-35G—Continued Domestic water systems—Continued Summary by horsepower or capacity—Continued Deep well (except submersible)—Continued				
	Nonjet.....	15,577	1,972	29,696	4,092
	Under 1 hp.....	14,440	1,612	26,227	3,108
	1/3 hp.....	1,018	176	3,469	984
	Over 3 hp.....	119	184		
	Shallow well.....	262,357	17,477	336,982	327,226
	Jet.....	182,854	11,838	229,251	17,722
	1/3 hp. and under.....	134,898	8,178	229,251	17,722
	1/2 hp.....	35,396	2,510		
	3/4 to 1 hp.....	9,812	861		
	Over 1 hp.....	2,748	289		
	Nonjet (except submersible).....	7,503	5,639	137,731	9,504
	Under 250 g.p.h.....	7,2	62	119,143	7,534
	250 to 499 g.p.h.....	65,810	4,388		
	500 g.p.h. and over.....	12,821	1,479		
	Convertible jet.....	186,994	13,997	(3)	(3)
	1/3 hp. and under.....	79,031	4,988	(3)	(3)
	1/2 hp.....	87,217	6,773	(3)	(3)
	3/4 to 1 hp.....	19,601	2,017	(3)	(3)
	Over 1 hp.....	1,145	219	(3)	(3)
	Submersible.....	77,633	16,680	43,362	11,343
	1/3 hp.....	8,673	1,050	43,362	11,343
	1/2 hp.....	28,816	4,415		
	3/4 to 1 hp.....	30,228	6,227		
	Over 1 hp.....	9,916	4,988		
	Domestic hand and windmill pumps.....	xxx	865	223,282	1,433
	Pitcher.....	85,127	363	169,483	650
	Other hand and windmill pumps (sold separately).....	25,524	502	53,799	783
	Pump jacks for domestic water systems.....	14,382	469	27,136	815
	Cylinders for domestic water systems (sold separately).....	93,827	1,165	168,830	1,445
3561300	Domestic water systems, nsk.....	xxx	2,069	xxx	...
35614—	Air and gas compressors, except refrigeration compressors.....	xxx	253,921	xxx	220,248
	Air compressors:				
	Stationary (including automotive type):				
3561411	1-1/2 hp. and under.....	88,734	8,617	97,316	21,267
3561412	Over 1-1/2 hp. to and including 7-1/2 hp.....	33,793	13,346		
3561413	Over 7-1/2 hp. to and including 15 hp.....	7,656	9,013		
3561415	Over 15 hp. to and including 100 hp.....	15,512	21,257		
3561416	Over 100 to and including 250 hp.....	753	9,119	716	7,170
3561417	Over 250 to and including 1,000 hp.....	383	25,376	848	38,543
3561418-19	Over 1,000 hp.....	147	15,894		
	Portable:				
3561431	150 cu. ft. of free air per minute and under.....	47,295	25,639	24,790	12,533
3561433	Over 150 to and including 400 cu. ft. free air per minute.....	1,134	8,891	3,177	11,880
3561435	Over 400 cu. ft. free air per minute.....	973	14,953	716	7,333
	Gas compressors (except compressors for ice-making, refrigerating, and air conditioning units):				
3561441	Centrifugal and axial.....	1,350	23,724	4,891	91,821
	Reciprocating and rotary:				
	Integral diesel or gas engine powered:				
3561452	250 hp. and under.....	685	4,807		
3561455-57	Over 250 hp.....	551	62,453		
	Other than integral engine powered:				
3561462	250 hp. and under.....	275	2,098	14,347	
3561465-67	Over 250 hp.....	183	14,347		

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3561---	Pumps and compressors—Continued				
35614--	Air and gas compressors, except refrigeration compressors—Continued				
3561400	Air and gas compressors, except refrigeration compressors, nsk.....	xxx	<sup>T</sup> 4,387	xxx	3,429
35615--	Pumps and compressors, nec, including oil well and oil-field pumps, but excluding refrigeration compressors.....	xxx	125,476	xxx	<sup>T</sup> 106,206
	Oil well and oil-field pumps (except boiler feed):				
3561511	Subsurface pumps for oil well pumping.....	xxx	25,539	xxx	22,191
3561513	Slush pumps.....	1,103	10,678	1,189	12,231
3561515	Other oil well and oil-field pumps.....	xxx	8,779	xxx	8,635
3561519	Other pumps and compressors (except automotive) (including oil burner and appliance pumps, dry vacuum pumps, fire engine pumps, etc.).....	xxx	40,964	xxx	<sup>T</sup> 40,574
	Industrial spraying equipment:				
3561531	Power paint-spraying outfits and liquid power sprayers (except agricultural).....	xxx	32,397	xxx	19,216
3561551	Hand sprayers (except agricultural and flame).....	339,402	3,466	xxx	2,143
3561500	Other pumps, compressors and industrial spraying equipment, nsk.....	xxx	3,653	xxx	1,216
3561611	Parts and attachments for pumps, air and gas compressors, and pumping equipment.....	xxx	180,166	xxx	145,022
3561000	Pumps and compressors, nsk.....	xxx	11,762	xxx	4,554
		Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
3562---	Ball and roller bearings, total.....		<sup>4</sup> 636,777		533,796
35621--	Ball bearings (complete).....		289,073		213,694
	Annular, ground, or precision, including self-aligning.....		233,326		175,208
3562112	Single row conrad.....		173,472		(NA)
3562114	Single row maximum capacity type.....		19,685		(NA)
3562116	Double row.....		15,138		(NA)
3562118	Angular contact.....		16,841		(NA)
3562119	All other ground or precision bearings.....		8,190		(NA)
3562125	Annular, unground (including self-aligning).....		8,757		(NA)
3562131	Thrust.....		13,305		14,388
3562151	Other ball bearings.....		33,685		24,098
35622--	Roller bearings (complete).....		269,316		249,947
3562211	Cylindrical (except thrust).....		52,999		41,755
3562223	Spherical (including hourglass and barrel, but excluding thrust), single				
3562225	row and double row.....		25,515		22,172
3562231	Taper (except thrust).....		161,144		156,407
3562241	Needle.....		19,109		14,440
3562251	Thrust (all types).....		7,780		8,135
3562298	Other roller bearings.....		2,769		7,038
35623--	Mounted bearings.....		34,984		24,393
3562311	Ball.....		<sup>5</sup> 20,654		<sup>5</sup> 13,869
3562351	Roller.....		<sup>6</sup> 14,330		<sup>6</sup> 10,524
35624--	Parts and components for ball and roller bearings, including balls and rollers, sold separately.....		41,069		45,146
3562411	Balls, sold separately.....		18,493		16,842
3562431	Rollers, sold separately.....		8,253		5,476
3562451	Other antifriction bearing components and parts (including unassembled bearings, cages, housing closure collars, races, etc.).....		14,323		22,828
3562000	Ball and roller bearings, nsk.....		2,335		616

See footnotes at end of table.



## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

35E-19

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3564---	Blowers and fans, total.....	252,899	274,045
35641--	Industrial fans and blowers.....	170,636	206,748
3564111	Blowers, industrial exhaust and ventilating fans, and parts (including attic-type fans):		
	As reported in Census of Manufactures <sup>1</sup> .....	<sup>1</sup> 170,636	206,748
	As reported on Census Quarterly Form M35H, total <sup>1</sup> .....	<sup>1</sup> 160,686	xxx
	Fans and blowers group.....	<sup>1</sup> 141,009	(NA)
	Centrifugal fans and blowers.....	85,690	97,112
3564113	Blower-filter units.....	2,538	3,173
3564114	Classes I and II fans (over 1-1/2" to 6-3/4" maximum total pressure)...	17,864	14,220
3564115	Classes III and IV fans (greater than 6-3/4" maximum total pressure)...	13,772	12,855
3564116	Furnace and light weight air-conditioning blowers.....	13,075	14,136
3564117	Industrial fans, excluding positive blowers and turbo-blowers.....	10,132	10,077
3564118	Positive displacement blowers and turbo-blowers.....	15,783	28,461
3564119	Small-housed blowers (utility set).....	12,526	14,190
	Industrial propeller fans.....	21,639	780,689
	Fans.....	18,142	777,060
3564120	Directly connected to driver.....	11,357	
3564121	Belt-driven.....	6,785	
3564122	Penthouses, shutters, guards, and other accessories.....	3,497	3,629
	Axial fans, total.....	11,150	13,406
3564123	Directly connected to driver.....	7,930	10,885
3564124	Belt-driven.....	3,220	2,521
3564125	Parts for fans and blowers.....	22,530	15,541
	Power roof ventilators group.....	19,677	(NA)
3564126	Axial and propeller type.....	7,408	(NA)
3564127	Centrifugal type.....	12,175	(NA)
3564128	Parts for power roof ventilators.....	94	(NA)
35642--	Dust collection, and air purification equipment and air washers.....	70,064	67,297
3564231	Air washers:		
	As reported in Census of Manufactures.....	<sup>1</sup> 3,250	2,003
	As reported on Census Quarterly Form M35H.....	<sup>1</sup> 2,368	xxx
3564251	Dust collection and other air purification equipment.....	66,814	65,294
3564000	Blowers and fans, nsk.....	12,199	...
3565---	Industrial patterns, total <sup>8</sup> .....	121,279	127,572
	Industrial patterns (of wood, metal, etc.), except shoe:		
3565011	Foundry patterns.....	94,225	71,399
3565098	All other industrial patterns, except shoe.....	8,798	25,543
3565000	Industrial patterns, except shoe, nsk.....	18,256	30,630
3566---	Power transmission equipment including bearings, total.....	622,741	595,019
35661--	Plain bearings.....	67,047	141,834
	Unmounted, machined (excluding carbon and graphite), all types:		
3566115	Plain bearings and bushings, unmounted, machined (exclude carbon and graphite), all types, except automotive.....	59,646	<sup>9</sup> 141,834
3566151	Mounted bearings, plain.....	4,521	
3566100	Plain bearings, nsk.....	2,880	

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3566---	Power transmission equipment including bearings—Continued.....		
35662--	Speed changer, gears and industrial high speed drives.....	234,151	218,193
3566211	Variable ratio speed drives.....	17,901	19,654
3566221	Industrial high speed drives, fixed ratio.....	18,871	11,397
	Speed reducers, fixed ratio, enclosed (except gearmotors):		
3566231	Worm gears.....	24,716	19,187
3566232	Other (except gearmotors).....	27,280	
	Gearmotor reducer elements:		
3566234	Under 1/8 horsepower.....	108,237	39,415
3566236	1/8 horsepower to but not including 3/4 horsepower.....	1014,105	
3566237	3/4 horsepower to and including 5 horsepower.....	1018,831	
3566239	Over 5 horsepower.....	108,946	
	Gears, pinions and racks, unmounted:		
3566241	Fine pitch (20 pitch and finer).....	27,166	20,095
3566249	Other than fine pitch (less than 20 pitch):		
	Other gears, including railway type pinions, and racks.....	47,191	1103,453
3566240	Gears, pinions, and racks, nsk.....	7,769	
3566200	Speed changers, gears and industrial high speed drives, nsk.....	13,138	4,992
35663--	Other mechanical power transmission equipment.....	310,418	234,992
3566311	Friction type clutches.....	126,281	18,495
3566313	Hydraulic type clutches (include hydraulic couplings).....	114,489	10,859
3566323	Flexible type couplings (except hydraulic).....	22,553	15,971
3566325	Universal joints.....	26,590	8,815
3566331	Chains for sprocket drives.....	81,622	63,431
3566341	Sprockets.....	22,308	23,733
3566351	Pulleys.....	7,787	6,906
	Sheaves:		
3566361	Single drive.....	4,289	3,467
3566365	Multiple drive.....	9,456	13,795
3566387	Railroad car journal bearings.....	10,856	(12)
3566398	Other mechanical power transmission equipment (except automobile, truck, and bus).....	177,301	61,562
3566300	Other mechanical power transmission equipment, nsk.....	6,886	7,958
3566000	Mechanical power transmission equipment, including bearings, nsk.....	11,125	xxx
Total shipments including interplant transfers <sup>13</sup>			
		1958	1954
		Quantity (number of units)	Quantity (number of units)
		Value (\$1,000)	Value (\$1,000)
3567---	Industrial furnaces and ovens, total.....	xxx	14184,845
35671--	Electric industrial furnaces and ovens.....	xxx	36,553
	Electric furnaces (excluding induction):		
3567111	Metal melting.....	348	274
3567121	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces).....	2,444	1,881
3567143	Electric (including infrared) industrial ovens.....	xxx	6,730
3567100	Electric furnaces and ovens, nsk.....	xxx	2,344
35672--	Fuel fired industrial furnaces and ovens.....	xxx	76,155
	Fuel fired furnaces:		
3567211	Metal melting (including blast furnaces and cupolas).....	1,584	812
3567221	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces).....	1,377	2,586
3567261	Hot rolling, forging, forming and extruding.....		49,183
3567241	Fuel fired industrial ovens.....	1,956	2,957
3567200	Fuel fired furnaces and ovens, nsk.....	xxx	2,417

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3567---	Industrial furnaces and ovens—Continued				
35673--	High frequency induction and dielectric heating equipment and parts, attachments and components.....	xxx	66,755	xxx	63,460
3567313	Induction furnaces and heating equipment:				
3567315	Radio frequency types (including spark gap).....	xxx	7,452	xxx	10,291
3567331	Line and motor-generator set frequency types.....	xxx	3,494	xxx	3,631
	Dielectric heating equipment.....	xxx	4,172	xxx	3,631
	Other electrical equipment for industrial use, except soldering irons:				
	Industrial electric heating units and devices (except heating units for electric furnaces)				
3567351	Tubular heaters.....	xxx	2,200	xxx	4,626
3567359	All other industrial electric heating units and devices (including strip, space, and ring heaters; water and oil immersion heaters, glue and compound pots, etc.).....	xxx	16,222	xxx	11,556
3567391	Parts and attachments and components for industrial furnaces and ovens including electric heating units (sold separately).....	xxx	32,618	xxx	32,553
3567300	High frequency induction and dielectric heating equipment, nsk.....	xxx	597	xxx	803
3567000	Industrial furnaces and ovens, nsk.....	xxx	6,072	xxx	1,897
		Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
3569---	General industrial machinery and equipment, nec, total.....		2467,391		266,309
3569011	Packaging and wrapping machines (except food and tobacco).....		46,449		1528,740
3569098	All other general industrial machinery and equipment, including filters and strainers, hydraulic jacks, centrifugals and separators (except cream), and gas generating equipment.....		2387,835		237,569
3569000	General industrial machinery, nsk.....		33,107		

\*Revised.

†Revised.

NA Not available.

<sup>1</sup>For these products, figures for 1958 were also collected on Census Current Survey Forms. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting generally to less than two percent at the industry level and not more than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the current commodity surveys will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

<sup>2</sup>Convertible jet-domestic water systems combined with jet domestic water systems.

<sup>3</sup>Convertible jet-domestic water systems combined with jet deep well domestic water systems and jet shallow well domestic water systems.

<sup>4</sup>Of this total, \$86 million represents value of shipments of ball and roller bearings transferred from one plant of a company to another plant of the same company.

<sup>5</sup>In 1958, represents 3,601 thousand units; for 1954 represents 3,233 thousand units.

<sup>6</sup>In 1958, represents 771 thousand units; for 1954 represents 522 thousand units.

<sup>7</sup>Statistics for 1954 include figures for household propeller fans and are not directly comparable with 1958 statistics which exclude such figures.

<sup>8</sup>Excludes captive production of industrial patterns.

<sup>9</sup>Includes automobile, truck, and bus bearings which are now classified in Industry 3717, code 3717591.

<sup>10</sup>Represents the value of gearmotor reducer elements only. Does not include the value of electric motors shipped as part of gearmotor reducer elements.

<sup>11</sup>Includes aircraft and related engine and power take-off gears which are now classified in Industry 3729, code 3729111.

<sup>12</sup>Included with other finished products of nonferrous foundries, codes 3361071-89.

<sup>13</sup>Represents shipments of industrial furnaces and ovens produced by manufacturing establishments only. Does not include industrial furnaces and ovens erected at the site by engineering and construction firms which purchase component parts for such furnaces and ovens.

<sup>14</sup>Establishments classified in Industry 3567 reported a breakdown of shipments of industrial furnaces and ovens between "Field-assembled" and "Factory-assembled" installations. For \$139 million of industrial furnaces, ovens, and parts reported by establishments classified in Industry 3567, "Field-assembled" installations amounted to \$66 million and "Factory-assembled" installations \$73 million. "Field-assembled" represents installations erected at the site by the manufacturer, either using his own labor force or utilizing local labor under the supervision of the manufacturer's factory personnel.

<sup>15</sup>This figure may be incomplete by an undetermined amount because significant values of these products may have been reported in "all other" categories for industries other than 3569.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<b>Industrial pumps, except hydraulic fluid power (35611):</b>			<b>Air and gas compressors, except refrigeration compressors (35614):</b>			<b>Parts and attachments for pumps, air and gas compres- sors, and pumping equipment (35616)--Continued</b>	1958 <sup>1</sup>	1954
United States, total:			United States, total:			East North Central.....	68,809	56,593
1958.....	272,626		1958.....	253,921		Ohio.....	20,568	12,039
1957.....	409,988		1957.....	279,778		Indiana.....	6,706	6,482
1956.....	375,991		1956.....	252,017		Illinois.....	17,675	16,257
1955.....	344,419		1955.....	238,362		Michigan.....	17,542	17,676
1954.....	316,384		1954.....	220,248		Wisconsin.....	6,518	4,138
1953.....	443,725		1953.....	265,562		West North Central.....	15,458	8,018
1952.....	417,815		1952.....	213,991		Iowa.....	2,390	( <sup>3</sup> )
1951.....	364,812		1951.....	201,787		Missouri.....	9,031	1,934
1950.....	257,252		1950.....	124,838		East South Central.....	1,233	1,405
1947.....	163,173		1947.....	130,859		West South Central.....	7,495	8,264
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954	Texas.....	4,775	4,500
New England.....	10,311	22,211	New England.....	9,500	6,850	West.....	21,821	( <sup>2</sup> )
Massachusetts.....	6,988	( <sup>2</sup> )	Middle Atlantic.....	158,147	166,555			
Connecticut.....	2,058	14,152	New York.....	105,281	124,602	<b>Ball bearings, complete (35621):</b>		Value of shipments
Middle Atlantic.....	82,292	79,831	North Central.....	74,731	( <sup>2</sup> )	United States, total:		
New York.....	12,236	10,418	Ohio.....	29,521	10,442	1958.....		289,073
New Jersey.....	55,053	50,101	Illinois.....	20,072	14,433	1957.....		328,794
Pennsylvania.....	15,003	19,312	Michigan.....	2,888	( <sup>3</sup> )	1956.....		309,901
East North Central.....	94,317	122,114	Wisconsin.....	9,374	( <sup>2</sup> )	1955.....		276,611
Ohio.....	28,745	32,300	South and West.....	11,543	( <sup>2</sup> )	1954.....		213,694
Indiana.....	15,577	11,036	California.....	1,013	1,435	1947.....		148,460
Illinois.....	30,222	37,454					1958 <sup>1</sup>	1954
Michigan.....	9,191	22,210	<b>Pumps and compressors, nec, except refrigeration compressors (35615):</b>		Value of shipments	New England.....	141,336	105,245
Wisconsin.....	10,482	19,112	United States, total:			Connecticut.....	132,074	102,281
West North Central.....	16,647	26,293	1958.....		125,476	Middle Atlantic.....	78,770	57,097
Minnesota.....	3,657	( <sup>2</sup> )	1957.....		101,148	New York.....	37,108	31,970
Iowa.....	5,882	7,318	1954.....		90,703	Pennsylvania.....	41,662	25,006
South Atlantic.....	2,009	( <sup>3</sup> )	1947.....			North Central.....	65,470	50,006
South Central.....	10,741	( <sup>2</sup> )				South and West.....	3,497	( <sup>3</sup> )
Oklahoma.....	2,924	( <sup>2</sup> )	New England.....		3,731	California.....	1,406	( <sup>3</sup> )
Texas.....	3,207	4,223	Middle Atlantic.....		13,214			Value of shipments
Mountain.....	3,115	1,861	New York.....		2,440	<b>Roller bearings, complete (35622):</b>		
Pacific.....	53,194	48,543	New Jersey.....		2,684	United States, total:		
California.....	52,300	( <sup>2</sup> )	Pennsylvania.....		8,090	1958.....		269,316
			East North Central.....		58,140	1957.....		314,468
<b>Hydraulic fluid power pumps and motors (35612):</b>			Ohio.....		17,935	1956.....		321,694
United States, total.....		88,164	Indiana.....		1,512	1955.....		310,095
New England.....		19,003	Illinois.....		27,925	1954.....		248,430
Middle Atlantic.....		14,522	Michigan.....		4,835	1947.....		147,569
New York.....		7,528	Wisconsin.....		5,933		1958 <sup>1</sup>	1954
New Jersey.....		1,788	West North Central.....		2,040	Northeast.....	91,543	( <sup>2</sup> )
Pennsylvania.....		5,206	South Atlantic.....		1,758	New York.....	8,618	( <sup>2</sup> )
East North Central.....		39,299	South Central.....		20,313	Pennsylvania.....	28,553	19,867
Ohio.....		14,430	Oklahoma.....		4,215	North Central.....	177,773	171,025
Illinois.....		6,778	Texas.....		15,618	Indiana.....	15,392	11,362
Michigan.....		5,944	Pacific.....		25,688	Illinois.....	6,858	4,924
Wisconsin.....		11,842						Value of shipments
West North Central.....		12,665	<b>Parts and attachments for pumps, air and gas compres- sors, and pumping equipment (35616):</b>		Value of shipments	<b>Industrial fans and blowers (35641):</b>		
Pacific.....		1,964	United States, total:			United States, total.....		170,636
California.....		1,964	1958.....		180,166	New England.....		21,507
<b>Domestic water systems and pumps, including pump jacks and cylinders (35613):</b>			1957.....		169,202	Middle Atlantic.....		36,299
United States, total.....		69,725	1956.....		171,210	New York.....		21,074
East North Central.....		35,951	1955.....		149,190	New Jersey.....		4,612
Ohio.....		18,082	1954.....		245,022	Pennsylvania.....		10,613
Illinois.....		5,820	1947.....		78,054	East North Central.....		84,822
West North Central.....		11,951				Ohio.....		28,055
South.....		11,575	New England.....		8,774	Indiana.....		14,553
Pacific.....		4,192	Massachusetts.....		4,270	Illinois.....		19,217
California.....		4,192	Middle Atlantic.....		56,000	Michigan.....		15,713
			New York.....		22,739	Wisconsin.....		7,284
			New Jersey.....		18,981			
			Pennsylvania.....		14,280			

See footnotes at end of table.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<b>Industrial fans and blowers (35611)--Continued</b>	1958 <sup>1</sup>	<b>Speed changers, industrial speed drives, and gears (35662)--Continued</b>	1958 <sup>1</sup> 1954	<b>Fuel fired industrial furnaces and ovens, metal processing (35672)--Continued</b>	
West North Central.....	4,553	East North Central.....	119,823 109,064	United States, total--Continued	
Minnesota.....	1,375	Ohio.....	40,664 21,389	1951.....	66,113
South Atlantic.....	3,047	Indiana.....	14,057 23,628	1953.....	22,117
South Central.....	6,745	Illinois.....	37,295 36,148	1947.....	34,562
Texas.....	1,697	Michigan.....	7,859 10,289		
West.....	3,883	Wisconsin.....	19,948 15,609		
California.....	12,849	West North Central.....	6,916 4,005		
<b>Dust collection, air purification equipment and air washers (35642):</b>		Missouri.....	2,714 2,309	New England.....	1,132 1,456
United States, total.....	70,064	South.....	7,181 2,374	Middle Atlantic.....	15,951 17,456
New England.....	3,409	North Carolina.....	5,203 (3)	New Jersey.....	4,008 4,305
Middle Atlantic.....	20,958	Texas.....	1,154 (3)	Pennsylvania.....	11,534 12,442
New York.....	5,216	West.....	14,155 17,164	East North Central.....	52,638 56,524
Pennsylvania.....	3,226	California.....	10,315 10,460	Ohio.....	35,686 56,576
East North Central.....	16,796	<b>Other power-transmission equipment (35665):</b>	Value of shipments	Illinois.....	4,883 (2)
Ohio.....	7,694	United States, total:		Michigan.....	9,734 9,624
Illinois.....	1,301	1958.....	4310,418	West North Central.....	2,456 (2)
Michigan.....	3,895	1957.....	4273,945	South and West.....	3,299 2,058
Wisconsin.....	1,399	1956.....	4293,464	California.....	2,157 (2)
West North Central.....	3,208	1954.....	4234,992		
South.....	21,925	1947.....	4181,745	<b>High frequency induction and dielectric heating equipment and parts (35673):</b>	Value of shipments
West.....	3,788			United States, total:	
<b>Plain bearings (35661):</b>		New England.....	30,520 25,474	1958.....	66,755
United States, total.....	67,047	Massachusetts.....	20,671 14,127	1957.....	45,553
New England.....	3,270	Connecticut.....	9,849 (2)	1956.....	41,648
Middle Atlantic.....	12,673	Middle Atlantic.....	39,286 32,220	1955.....	36,775
New Jersey.....	3,513	New York.....	10,474 11,476	1954.....	32,553
North Central.....	43,641	New Jersey.....	2,829 4,344	1952.....	21,040
Ohio.....	26,049	Pennsylvania.....	25,983 16,399	1951.....	20,303
Indiana.....	10,310	East North Central.....	195,939 149,839	1950.....	18,410
Michigan.....	4,549	Ohio.....	15,551 18,568	1947.....	23,215
South.....	1,574	Indiana.....	79,672 47,014		
Pacific.....	5,889	Illinois.....	40,158 41,885		
California.....	5,889	Michigan.....	31,574 16,016	New England.....	5,641 1,840
<b>Speed changers, industrial speed drives, and gears (35662):</b>	Value of shipments	Wisconsin.....	28,984 26,355	Massachusetts.....	3,764 (3)
United States, total:		West North Central.....	9,481 (2)	Connecticut.....	1,509 (3)
1958.....	234,151	Minnesota.....	4,204 (2)	Middle Atlantic.....	21,944 16,705
1957.....	326,605	Missouri.....	4,036 (3)	New York.....	6,926 1,471
1956.....	319,504	South Atlantic.....	10,922 4,931	New Jersey.....	7,551 2,580
1955.....	236,595	East South Central.....	7,653 (2)	Pennsylvania.....	7,467 12,654
1954.....	218,193	West South Central.....	6,698 4,123	North Central.....	32,283 12,309
1947.....	124,614	Texas.....	4,492 3,012	Ohio.....	7,111 4,420
		West.....	9,919 8,915	Illinois.....	9,735 4,150
		California.....	8,047 8,383	Michigan.....	3,313 542
New England.....	23,573 25,169	<b>Fuel fired industrial furnaces and ovens, metal processing (35672):</b>	Value of shipments	Wisconsin.....	4,374 (3)
Massachusetts.....	19,249 22,301	United States, total:		South.....	3,586 (3)
Middle Atlantic.....	62,503 59,518	1958.....	75,476	West.....	3,301 (3)
New York.....	14,919 12,942	1957.....	109,491	California.....	2,459 (3)
New Jersey.....	14,929 12,358	1956.....	99,187		
Pennsylvania.....	32,655 34,218	1955.....	72,608		
		1954.....	81,919		
		1953.....	70,400		
		1952.....	80,337		

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures Publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 35611, Kansas, Tennessee, Arkansas and Colorado; 35612, Massachusetts; Connecticut, Nebraska, and Kansas; 35613, New York, Indiana, Wisconsin, Iowa, Missouri, Nebraska, Georgia, Arkansas, and Oklahoma; 35614, Massachusetts, Connecticut, New Jersey, Pennsylvania, Indiana, Missouri, Louisiana, and Texas; 35615, Rhode Island, Kansas, West Virginia, and California; 35616, Rhode Island, Connecticut, Nebraska, Kansas, Arkansas, Oklahoma, Colorado, and California; 35621, New Hampshire, Ohio, Indiana, Illinois, Michigan, and Oklahoma; 35622, Connecticut, New Jersey, Ohio, and Michigan; 35641, Massachusetts, Connecticut, Missouri, West Virginia, and Alabama; 35642, Massachusetts, Connecticut, New Jersey, Indiana, Minnesota, Maryland, North Carolina, Kentucky, and California; 35661, Massachusetts, Connecticut, Pennsylvania, and Illinois; 35662, Maine, Connecticut, Minnesota, and Washington; 35663, Maryland, Virginia, Kentucky, Oklahoma, and Colorado; 35672, Indiana, and Minnesota; 35673, Indiana, Missouri, and Maryland.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

<sup>4</sup>Figures for 1958 are not strictly comparable with those for earlier years since the 1958 figures include railroad-car journal bearings, which were classified in Industry 3361, Nonferrous Foundries for earlier years. For 1958, the total value of shipments of railroad-car journal bearings amounted to \$10,856 thousand, or 3 percent of the total value of shipments for product class 35663.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958			1954		
			Consumption of materials received from other establishments		Produced and consumed in the same establishment (quantity)	Consumption of materials received from other establishments		Produced and consumed in the same establishment (quantity)
			Quantity	Delivered cost (\$1,000)		Quantity	Delivered cost (\$1,000)	
			INDUSTRY 3561—PUMPS AND COMPRESSORS					
	Materials, parts, containers, and supplies, total.....		xxx	467,082	xxx	xxx	376,855	xxx
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons	23,187	5,301	xxx	29,777	5,732	xxx
331212	Sheet and strip.....	do....	22,824	4,047	xxx	23,655	3,749	xxx
331213	Plates.....	do....	21,115	3,514	xxx	15,237	2,427	xxx
331215	Structural shapes.....	do....	10,338	1,905	xxx	6,245	1,011	xxx
331217	Wire and wire products.....	do....	647	170	xxx	857	159	xxx
331219	All other carbon steel mill shapes and forms..	do....	40,091	9,053	xxx	47,373	10,414	xxx
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do....	6,643	2,424	xxx	5,731	2,077	xxx
331225	All other alloy steel mill shapes and forms...	do....	7,597	3,566	xxx	6,495	2,434	xxx
331231	Stainless steel mill shapes and forms.....	do....	4,589	5,955	xxx	3,701	3,729	xxx
	Copper and copper-base alloy:							
335111	Bare wire for electrical conduction only.....	1,000 lbs.	595	582	xxx	1,025	439	xxx
363111	Insulated wire and cable.....	1,000 lbs. copper content..	1,801	1,044	xxx	1,796	1,222	xxx
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	8,126	4,881	xxx	9,818	5,333	xxx
	Aluminum and aluminum-base alloy mill shapes and forms:							
335257	Sheet, plate, and foil.....	do....	271	211	xxx	1,145	973	xxx
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do....	1,830	1,190	xxx			
	Primary metals and scrap:							
331251	Pig iron.....	Short tons	36,645	2,293	xxx	42,465	2,350	xxx
333111	Copper and copper-base alloy refinery shapes.....	do....	4,009	2,018	xxx	6,058	3,393	xxx
	Scrap (excluding home scrap)							
941011	Iron and steel.....	do....	46,678	1,883	xxx	58,682	2,139	xxx
941021	Copper and copper-base alloy.....	do....	1,051	880	xxx	1,774	869	xxx
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	do....	128,352	46,834	56,020	129,685	43,429	79,781
332311	Steel.....	do....	11,605	16,954	761	13,578	16,241	3,571
336121	Copper and copper-base alloy.....	1,000 lbs.	19,550	13,183	7,968	18,429	13,057	13,482
336111	Aluminum and aluminum-base alloy.....	do....	2,646	2,854	1,991	4,022	4,402	652
339111	Iron and steel forgings.....	Short tons	8,044	5,983	...	xxx	xxx	xxx
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number....	1,446,678	23,521	465,812	1,293,000	25,778	xxx
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do....	188,420	27,509	4,271	127,000	20,697	xxx
351921	Diesel and semi-Diesel engines.....	do....	1,440	4,663	(D)	927	1,709	xxx
351911	Gasoline and other carbueretor engines.....	do....	71,565	5,766	(D)	118,620	5,833	xxx
359311	Ball and roller bearings.....		xxx	5,097	xxx	xxx	3,679	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	244,658	xxx	xxx	193,580	xxx
973000	Materials, etc., nsk.....		xxx	19,143	xxx	xxx	xxx	xxx

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3562—BALL AND ROLLER BEARINGS			
	Materials, parts, containers, and supplies, total.....		xxx	208,638	xxx	191,648
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons	13,678	3,239	18,728	3,333
331212	Sheet and strip.....	do.	36,307	7,189	42,494	6,747
331217	Wire and wire products.....	do.	11,028	4,788	8,061	2,585
331212	Plates.....	do.			308	59
331219	All other carbon steel mill shapes and forms.....	do.	5,702	2,110	4,139	1,049
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.	93,478	36,884	105,157	29,006
331225	All other alloy steel mill shapes and forms.....	do.	98,138	45,498	94,448	45,758
331231	Stainless steel mill shapes and forms.....	do.	496	694	541	795
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 lbs.	(D)	(D)	xxx	xxx
363111	Insulated wire and cable.....	1,000 lbs. copper content..	(D)	(D)		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	3,075	1,685	1,186	618
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	Short tons	6,863	2,315	6,635	2,070
332311	Steel.....	do.	4,022	2,666	3,778	2,241
336121	Copper and copper-base alloy.....	1,000 lbs.	1,475	1,267	2,134	1,654
336111	Aluminum and aluminum-base alloy.....	do.	...	...	321	129
339111	Iron and steel forgings.....	Short tons	14,908	9,814	xxx	xxx
359311	Ball and roller bearings.....		xxx	3,297	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed..		xxx	85,109	xxx	95,604
973000	Materials, etc., nsk.....		xxx	2,083	xxx	xxx
			INDUSTRY 3564—BLOWERS AND FANS			
	Materials, parts, containers, and supplies, total.....		xxx	99,467	xxx	106,188
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons	10,902	1,709	12,343	1,606
331212	Sheet and strip.....	do.	59,167	9,249	89,330	11,857
331213	Plates.....	do.	17,352	2,303	24,962	2,801
331215	Structural shapes.....	do.	8,776	1,269	2,223	318
331217	Wire and wire products.....	do.	1,082	609	1,174	575
331219	All other carbon steel mill shapes and forms.....	do.	4,204	777	5,204	791
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.			547	137
331225	All other alloy steel mill shapes and forms.....	do.	1,240	752	855	394
331231	Stainless steel mill shapes and forms.....	do.	971	1,460	1,104	1,213
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 lbs.	(D)	(D)	1,217	657
363111	Insulated wire and cable.....	1,000 lbs. copper content..	206	163	519	341
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	1,899	1,338	2,300	1,453
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	do.	5,670	2,906		
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.	666	445	5,955	2,753
	Primary metals and scrap:					
331251	Pig iron.....	Short tons	1,285	82	xxx	xxx
941011	Iron and steel scrap (excluding home scrap).....	do.	3,158	111	xxx	xxx
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	do.	5,978	2,247	8,037	2,660
332311	Steel.....	do.	1,389	1,205	1,821	807
336121	Copper and copper-base alloy.....	1,000 lbs.	319	241	450	283
336111	Aluminum and aluminum-base alloy.....	do.	2,297	1,902	1,383	1,103
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	Number...	467,790	4,272		
361419	All other fractional horsepower electric motors.....	do.	235,522	2,841	1,482,000	14,418
361431	Integral horsepower electric motors and generators (1 horsepower and over)....	do.	43,278	4,734	41,000	4,871
359311	Ball and roller bearings.....		xxx	2,223	xxx	1,809
970099	All other materials and components, parts, containers, and supplies consumed..		xxx	40,421	xxx	55,341
973000	Materials, etc., nsk.....		xxx	116,139	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		
			Consumption of materials received from other establishment		Produced and consumed in the same establishment (quantity)
			Quantity	Delivered cost (\$1,000)	
			INDUSTRY 3566—POWER TRANSMISSION EQUIPMENT		
	Materials, components, parts, containers, and supplies, total.....		xxx	193,457	xxx
	Mill shapes and forms (except castings):				
	Carbon steel:				
331211	Bars and bar shapes.....	Short tons	53,710	12,820	xxx
331212	Sheet and strip.....	do.	47,961	9,799	xxx
331213	Plates.....	do.	23,487	3,517	xxx
331215	Structural shapes.....	do.	2,191	443	xxx
331217	Wire and wire products.....	do.	2,729	1,164	xxx
331219	All other carbon steel mill shapes and forms.....	do.	5,676	1,785	xxx
	Alloy steel (except stainless):				
331221	Bars and bar shapes.....	do.	22,173	6,367	xxx
331225	All other alloy steel mill shapes and forms.....	do.	11,412	4,364	xxx
331231	Stainless steel mill shapes and forms.....	do.	1,099	1,515	xxx
	Copper and copper-base alloy:				
335111	Bare wire for electrical conduction only.....	1,000 lbs.	161	112	xxx
363111	Insulated wire and cable.....	1,000 lbs. copper content..	101	68	xxx
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	1,141	781	xxx
	Aluminum and aluminum-base alloy mill shapes and forms:				
335257	Sheet, plate and foil.....	do.	104	114	xxx
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.	296	229	xxx
	Primary metals and scrap:				
331251	Pig iron.....	Short tons	13,544	972	xxx
333111	Copper and copper-base alloy refinery shapes.....	do.	9,795	5,806	xxx
	Scrap (excluding home scrap):				
941011	Iron and steel.....	do.	31,259	1,395	xxx
941021	Copper and copper-base alloy.....	do.	11,784	4,895	xxx
	Castings (rough and semifinished, received from foundry):				
332011	Iron (gray and malleable).....	do.	63,089	17,936	23,575
332311	Steel.....	do.	11,439	6,865	184
336121	Copper and copper-base alloy.....	1,000 lbs.	5,538	3,693	(D)
336111	Aluminum and aluminum-base alloy.....	do.	1,544	1,223	xxx
339111	Iron and steel forgings.....	Short tons	34,620	14,871	2,444
359311	Ball and roller bearings.....		xxx	8,559	xxx
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	69,273	xxx
973000	Materials, etc., nsk.....		xxx	115,062	xxx

Code	Material	Unit of measure	1958	
			Quantity	Delivered cost (\$1,000)
			INDUSTRY 3567—INDUSTRIAL PROCESS FURNACES AND OVENS	
	Materials, components, parts, containers, and supplies, total.....	.....	xxx	87,072
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons.....	3,665	707
331212	Sheet and strip.....	do.....	8,794	1,475
331213	Plates.....	do.....	19,968	2,627
331215	Structural shapes.....	do.....	15,854	2,786
331217	Wire and wire products.....	do.....	1,222	215
331219	All other carbon steel mill shapes and forms.....	do.....	3,785	591
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	845	234
331225	All other alloy steel mill shapes and forms.....	do.....	231	414
331231	Stainless steel mill shapes and forms.....	do.....	3,200	5,553
332311	Steel castings (rough and semifinished, received from foundry).....	do.....	2,042	2,345
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	59,510
973000	Materials, etc., nsk.....	.....	xxx	110,615

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		
			Consumption of materials received from other establishments		Produced and consumed in the same establishment (quantity)
			Quantity	Delivered cost (\$1,000)	
			INDUSTRY 3569—GENERAL INDUSTRY MACHINERY, NEC		
	Materials, components, parts, containers, supplies, total.....		xxx	r152,021	xxx
	Mill shapes and forms (except castings):				
	Carbon steel:				
331211	Bars and bar shapes.....	Short tons	14,833	3,776	xxx
331212	Sheet and strip.....	do...	21,400	3,816	xxx
331213	Plates.....	do...	9,649	1,787	xxx
331215	Structural shapes.....	do...	r6,730	r1,259	xxx
331217	Wire and wire products.....	do...	3,071	1,612	xxx
331219	All other carbon steel mill shapes and forms.....	do...	11,898	2,620	xxx
	Alloy steel (except stainless):				
331221	Bars and bar shapes.....	do...	1,303	617	xxx
331225	All other alloy steel mill shapes and forms.....	do...	1,238	650	xxx
331231	Stainless steel mill shapes and forms.....	do...	r1,206	r2,036	xxx
	Copper and copper-base alloy:				
335111	Bare wire for electrical conduction only.....	1,000 lbs.	373	146	xxx
363111	Insulated wire and cable.....	1,000 lbs. copper content..	r72	r36	xxx
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.	5,098	3,145	xxx
	Aluminum and aluminum-base alloy mill shapes and forms:				
335257	Sheet, plate and foil.....	do...	2,054	1,172	xxx
335259	All other mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do...	1,711	1,105	xxx
	Primary metals and scrap:				
331251	Pig iron.....	Short tons	812	55	xxx
	Scrap (excluding home scrap):				
941011	Iron and steel.....	do...	1,201	48	xxx
941031	Aluminum and aluminum-base alloy.....	do...	10	21	xxx
	Castings (rough and semifinished, received from foundry):				
332011	Iron (gray and malleable).....	do...	9,525	3,721	1,703
332311	Steel.....	do...	1,818	1,274	xxx
336121	Copper and copper-base alloy.....	1,000 lbs.	1,554	1,067	xxx
336111	Aluminum and aluminum-base alloy.....	do...	678	620	xxx
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number....	27,115	877	144
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do...	6,514	7,110	131
351911	Gasoline and other carburetor engines.....	do...	(D)	(D)	...
359311	Ball and roller bearings.....		xxx	377	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	r76,396	xxx
973000	Materials, etc., nsk.....		xxx	r36,678	xxx

D Withheld to avoid disclosing figures of individual companies. <sup>1</sup>Revised.<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3561	PUMPS AND COMPRESSORS (entire industry)	582	60,042	321,509	37,407	74,975	180,146	542,037	535,221	1,114,053	24,678
	Establishments with:										
	90% or more specialization.....	458	33,767	177,624	21,284	42,783	99,372	311,655	342,300	672,302	16,179
	75-89% specialization.....	37	8,092	41,901	4,957	9,710	23,651	79,870	53,216	137,728	2,081
35611	Industrial pumps, except hydraulic fluid power (primary product class of estab.).....	202	20,198	110,922	12,843	26,444	64,869	187,500	208,728	412,365	7,061
	Establishments with:										
	90% or more specialization....	110	2,676	13,782	1,728	3,523	7,534	28,720	24,891	54,482	1,063
	75-89% specialization.....	28	1,734	9,041	1,036	2,001	4,711	16,628	20,705	38,569	( <sup>1</sup> )
35612	Hydraulic fluid power pumps and motors (primary product class of estab.).....	37	7,565	40,432	4,731	9,205	22,320	68,378	50,083	122,655	2,056
	Establishments with:										
	90% or more specialization....	11	1,218	6,181	767	1,503	3,466	9,770	5,909	15,084	587
	75-89% specialization.....	9	1,195	5,811	899	1,850	4,052	10,205	7,372	18,633	( <sup>1</sup> )
35613	Domestic water systems and pumps including pump jacks and cylinders (primary product class of estab.)..	34	4,549	22,415	2,850	5,558	12,483	40,187	46,989	87,410	2,075
	Establishments with:										
	90% or more specialization....	17	1,222	5,831	756	1,545	3,214	10,249	15,355	24,908	932
35614	Air and gas compressors except refrigeration compressors (primary product class of estab.).....	39	16,302	83,081	10,414	20,487	48,386	139,917	150,427	298,886	9,655
	Establishments with:										
	90% or more specialization....	15	344	1,959	243	531	1,080	5,194	6,724	11,220	( <sup>1</sup> )
	75-89% specialization.....	9	8,312	42,338	5,297	10,423	24,039	66,092	74,504	146,673	7,316
35615	Pumps and compressors, nec, except refrigeration compressors (primary product class of estab.).....	130	6,019	33,156	3,787	7,562	18,279	66,315	45,454	111,916	1,897
	Establishments with:										
	90% or more specialization....	83	1,966	10,394	1,311	2,687	5,977	22,735	16,524	40,510	765
	75-89% specialization.....	17	1,355	7,929	820	1,636	4,136	16,555	7,744	22,777	( <sup>1</sup> )
35616	Parts and attachments for pumps, air and gas compressors, and pumping equipment (primary product class of estab.).....	50	4,399	26,917	2,115	4,353	11,113	29,546	26,181	63,592	1,416
	Establishments with:										
	90% or more specialization....	26	692	3,930	459	1,000	2,127	7,334	4,600	12,060	( <sup>1</sup> )
3562	BALL AND ROLLER BEARINGS (entire industry).....	107	46,439	241,160	35,757	67,323	169,117	407,744	231,314	649,640	34,303
	Establishments with:										
	90% or more specialization.....	88	44,644	232,885	34,426	64,732	163,596	390,762	226,172	627,115	33,726
35621	Ball bearings complete (primary product class of estab.).....	34	22,761	115,784	18,143	35,243	85,191	204,303	90,191	299,539	13,372
	Establishments with:										
	90% or more specialization....	22	15,082	73,435	12,462	24,404	56,619	139,704	57,986	200,377	8,240
	75-89% specialization.....	4	5,252	28,644	3,860	7,372	18,979	37,848	16,126	56,619	2,623
35622	Roller bearings, complete (primary product class of estab.).....	27	20,607	109,810	15,194	27,298	72,791	174,097	119,937	299,698	11,897
	Establishments with:										
	90% or more specialization....	18	14,410	76,076	10,692	49,729	116,080	86,393	86,393	205,886	9,147
35623	Mounted bearings (primary product class of estab.).....	6	1,188	6,039	899	1,746	4,324	12,621	7,714	20,679	7,035
35624	Ball and roller bearings parts and components (primary product class of estab.).....	21	1,684	8,650	1,379	2,780	6,219	15,081	11,534	26,123	1,867
	Establishments with:										
	90% or more specialization....	15	1,242	6,333	1,061	2,107	4,817	10,888	9,772	20,027	1,622
3564	BLOWERS AND FANS (entire industry).....	207	15,947	82,457	10,980	21,356	50,322	145,050	121,646	271,629	5,569
	Establishments with:										
	90% or more specialization.....	152	7,254	36,668	4,777	9,304	21,200	68,958	60,451	130,361	3,116
	75-89% specialization.....	17	2,588	13,171	1,750	3,395	7,980	21,659	17,569	40,339	1,154
35641	Industrial fans and blowers (primary product class of estab.)..	95	12,337	63,437	8,613	16,780	39,264	108,792	89,096	202,839	4,556
	Establishments with:										
	90% or more specialization....	55	3,771	18,549	2,570	4,998	10,890	32,653	26,574	59,817	2,099
	75-89% specialization.....	9	1,625	8,063	1,069	2,141	4,911	14,989	13,515	29,171	1,070

See footnotes at end of table.



Table 8.--General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958--Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
35642	FLOWERS AND FANS, ETC.--Con. Dust collection, air purification equipment, and air washers (primary product class of estab.).....	38	2,871	15,593	1,794	3,476	8,576	30,355	27,822	58,490	675
	Establishments with:										
	90% or more specialization....	22	2,138	11,413	1,262	2,441	5,955	23,560	22,303	46,004	512
	75-89% specialization.....	6	266	1,414	190	356	800	2,303	1,960	4,397	( <sup>1</sup> )
3566	POWER TRANSMISSION EQUIPMENT (entire industry).....	470	782	226,101	762	537	143,812	384,372	230,817	630,303	21,719
	Establishments with:										
	90% or more specialization.....	383	243	129,819	424	491	81,958	227,150	139,687	374,294	13,451
	75-89% specialization.....	16	1,046	5,561	725	1,482	3,684	7,244	4,990	12,900	( <sup>1</sup> )
35661	Plain bearings (primary product class of estab.).....	43	4,525	23,695	3,434	6,596	15,728	38,059	18,242	56,289	2,437
	Establishments with:										
	90% or more specialization....	33	2,379	12,427	1,827	3,577	8,125	20,989	10,071	30,884	1,201
	75-89% specialization.....	4	285	1,513	214	444	976	2,673	1,300	4,122	(D)
35662	Speed changers, industrial high speed drives, etc. (primary product class of estab.).....	230	16,844	94,210	11,645	22,744	57,963	150,742	95,470	255,225	9,557
	Establishments with:										
	90% or more specialization....	168	7,386	41,687	5,462	10,947	27,325	68,155	40,560	111,383	4,011
	75-89% specialization.....	21	3,061	15,959	1,796	3,055	7,827	20,893	18,255	41,216	2,500
35663	Other mechanical power transmission equipment (primary product class of estab.).....	112	19,215	102,659	13,760	26,566	66,153	185,652	112,048	303,616	9,327
	Establishments with:										
	90% or more specialization....	73	8,111	43,074	5,941	11,400	27,566	85,011	50,642	138,823	4,463
	75-89% specialization.....	9	1,276	6,543	893	1,660	4,147	10,198	7,470	17,695	( <sup>1</sup> )
3567	INDUSTRIAL FURNACES AND OVENS (entire industry).....	201	10,288	57,394	5,774	11,671	26,859	96,450	101,814	204,853	2,853
	Establishments with:										
	90% or more specialization....	143	4,857	27,791	2,719	5,431	12,463	49,693	60,976	113,738	1,042
	75-89% specialization.....	21	1,974	11,078	924	1,897	4,209	19,791	18,250	38,785	( <sup>1</sup> )
35671	Electric industrial furnaces and ovens (primary product class of estab.).....	42	2,424	13,462	1,282	2,702	6,072	19,654	20,464	40,533	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	14	252	1,297	179	371	786	2,676	2,401	4,803	( <sup>1</sup> )
	75-89% specialization.....	8	328	1,855	216	479	975	3,273	3,022	6,177	( <sup>1</sup> )
35672	Fuel-fired industrial furnaces and ovens (primary product class of estab.).....	48	3,131	19,013	1,455	2,888	7,382	35,728	51,959	91,694	711
	Establishments with:										
	90% or more specialization....	14	1,233	7,119	485	916	2,358	16,693	26,013	45,968	(D)
	75-89% specialization.....	10	219	1,298	120	237	584	1,523	2,079	3,855	( <sup>1</sup> )
35673	Parts, attachments for industrial furnaces and ovens (primary product class of estab.).....	71	4,089	21,711	2,617	5,288	11,517	33,884	24,781	60,640	1,191
	Establishments with:										
	90% or more specialization....	41	1,092	5,487	795	1,575	3,197	10,473	6,681	17,229	( <sup>1</sup> )
	75-89% specialization.....	11	690	3,382	456	891	1,853	5,086	3,055	8,208	( <sup>1</sup> )
3569	GENERAL INDUSTRY MACHINERY, NEC (entire industry).....	r584	r28,014	r159,915	r16,068	r31,794	r75,622	r281,423	r189,847	r458,280	r17,347
	Establishments with:										
	90% or more specialization....	r486	r16,927	r94,906	r9,145	r17,593	r40,724	r176,358	r113,083	r272,910	r12,142
	75-89% specialization.....	30	5,166	30,196	2,787	5,786	13,343	47,355	40,887	89,451	3,800

rRevised.

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3561—PUMPS AND COMPRESSORS								
Ferrous foundry.....	36	...	7	29	2,659	...	72	2,587
Nonferrous foundry (except die casting).....	24	5	14	5	310	15	166	129
Galvanizing and other hot dip coating.....	10	6	4	...	58	14	44	...
Heat treating and annealing.....	43	30	11	2	223	64	101	58
Automatic screw machine department.....	47	25	17	5	658	55	150	453
Machine shop.....	257	37	85	135	14,179	97	909	13,173
Tool and die shop.....	108	53	41	14	971	124	384	463
Foundry pattern shop.....	61	36	18	7	503	83	164	256
Plate or structural fabrication.....	73	29	23	21	1,514	61	221	1,232
Stamping, blanking, and forming.....	53	34	17	2	291	68	(D)	(D)
Painting, lacquering, and enameling.....	165	139	21	5	539	256	158	125
INDUSTRY 3562—BALL AND ROLLER BEARINGS								
Nonferrous foundry (except die casting).....	1	...	1	...	(D)	...	(D)	...
Forging.....	11	5	4	2	101	8	(D)	(D)
Electroplating.....	6	5	1	...	16	(D)	(D)	...
Heat treating and annealing.....	55	20	16	19	1,288	50	161	1,077
Automatic screw machine department.....	55	15	9	31	2,618	28	98	2,492
Machine shop.....	62	12	21	29	3,226	28	197	3,001
Tool and die shop.....	39	12	13	14	1,901	26	156	1,719
Foundry pattern shop.....	2	2	...	...	(D)	(D)	...	...
Plate or structural fabrication.....	2	1	...	1	(D)	(D)	...	(D)
Stamping, blanking, and forming.....	44	7	20	17	1,201	16	201	984
Painting, lacquering, and enameling.....	6	6	...	...	12	12	...	...
INDUSTRY 3564—BLOWERS AND FANS								
Ferrous foundry.....	3	...	1	2	206	...	(D)	(D)
Nonferrous foundry (except die casting).....	4	2	1	1	42	(D)	(D)	(D)
Forging.....	1	1	...	...	(D)	(D)	...	...
Heat treating and annealing.....	4	2	2	...	26	(D)	(D)	...
Automatic screw machine department.....	5	3	2	...	28	(D)	(D)	...
Machine shop.....	57	25	18	14	1,293	56	182	1,055
Tool and die shop.....	22	12	7	3	179	26	61	92
Plate or structural fabrication.....	43	13	17	13	1,053	33	173	847
Stamping, blanking, and forming.....	56	15	26	15	828	37	289	502
Painting, lacquering, and enameling.....	74	60	13	1	239	102	(D)	(D)
INDUSTRY 3565—INDUSTRIAL PATTERNS								
Ferrous foundry.....	3	2	1	...	10	(D)	(D)	...
Nonferrous foundry (except die casting).....	59	39	18	2	287	85	(D)	(D)
Machine shop.....	42	30	11	1	203	64	(D)	(D)
Tool and die shop.....	27	15	12	...	116	33	83	...
Foundry pattern shop.....	524	208	263	53	4,871	558	2,442	1,871
Plate or structural fabrication.....	3	3	...	...	9	9	...	...
Stamping, blanking, and forming.....	8	6	1	1	131	10	(D)	(D)
Painting, lacquering, and enameling.....	42	38	3	1	107	58	(D)	(D)
INDUSTRY 3566—POWER TRANSMISSION EQUIPMENT								
Ferrous foundry.....	9	...	1	8	1,208	...	(D)	(D)
Nonferrous foundry (except die casting).....	6	2	1	3	132	(D)	(D)	115
Forging.....	3	1	1	1	33	(D)	(D)	(D)
Electroplating.....	15	11	4	...	65	20	45	...
Heat treating and annealing.....	64	31	22	11	727	63	215	449
Automatic screw machine department.....	56	28	19	9	596	63	162	371
Machine shop.....	198	10	60	128	13,783	29	746	13,008
Tool and die shop.....	64	16	30	18	947	39	272	636
Foundry pattern shop.....	31	20	10	1	169	41	(D)	(D)
Plate or structural fabrication.....	15	6	6	3	282	18	49	215
Stamping, blanking, and forming.....	43	14	11	18	1,198	30	93	1,075
Painting, lacquering, and enameling.....	50	44	4	2	837	72	(D)	(D)

See footnotes at end of table.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3567—INDUSTRIAL FURNACES AND OVENS							
Machine shop.....	75	44	22	9	883	92	231	560
Plate or structural fabrication.....	63	21	29	13	842	56	255	531
Stamping, blanking, and forming.....	45	23	19	3	438	41	165	232
Painting, lacquering, and enameling.....	60	57	3	...	105	87	18	...
	INDUSTRY 3569—GENERAL INDUSTRY MACHINERY, NEC							
Ferrous foundry.....	2	...	1	1	36	...	(D)	(D)
Nonferrous foundry (except die casting).....	6	5	...	1	46	(D)	...	(D)
Heat treating and annealing.....	19	17	1	1	104	23	(D)	(D)
Automatic screw machine department.....	22	17	4	1	82	31	(D)	(D)
Machine shop.....	r184	47	83	r54	r4,084	128	886	r3,070
Tool and die shop.....	36	19	16	1	195	38	(D)	(D)
Foundry pattern shop.....	14	12	2	...	40	(D)	(D)	...
Plate or structural fabrication.....	r71	26	31	r14	r1,123	63	263	r797
Stamping, blanking, and forming.....	r52	35	r13	r4	r398	74	r133	r191
Painting, lacquering, and enameling.....	r100	95	r5	...	r202	157	r45	...

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3561	3562	3564	3565	3566	3567	3569
Total number of establishments in the industry..	582	107	207	1,174	r470	r201	r584
Number of establishments completing the metalworking operations inquiry including establishments that reported "none".....	517	97	174	1,043	425	167	r583
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	over 95	90-95	85-90	90-95	over 95	over 95

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.





# Office, Computing, and Accounting Machines

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries—

## S.I.C. Code and Title (1957 Edition)

3571—Computing and Accounting Machines, Including Cash Registers

3572—Typewriters

3576—Scales and Balances, Except Laboratory

3579—Office Machines, Not Elsewhere Classified

## 3571—Computing and Accounting Machines, Including Cash Registers

This industry comprises establishments primarily engaged in manufacturing computing machines including electronic, accounting machines, and cash registers. Establishments primarily engaged in manufacturing typewriters are classified in Industry 3572, and office duplicating machines and devices and autographic registers in Industry 3579. For a detailed list of products of Industry 3571, refer to table 6.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number and not significantly changed in comparison with data classified by the previous system. Establishments primarily engaged in producing revolution counters, formerly classified in this industry, are now included in Industry 3821, Mechanical Measuring Devices.

Value of shipments and other receipts of the Computing and Related Machines Industry in 1958 totaled \$1,104 million. This included shipments of computing and related machines (primary products), valued at \$945 million, shipments of other products (secondary products) valued at \$66 million, and miscellaneous receipts of \$94 million.

This industry's shipments of computing and related machines (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 78 percent. Secondary products shipped by this industry in 1958 consisted mainly of aircraft flight, nautical, and navigational instruments and automatic pilots, \$22 million; other electronic components and accessories, \$12 million.

Industry 3571 shipments of computing and related machines (primary products) in 1958 represented 91 percent (coverage ratio) of these products valued at \$1,039 million shipped by all industries. In 1954, the coverage ratio was 93 percent. Other industries shipping computing and related machines (primary products) consisted mainly of Industry 3572, Typewriters, \$33 million; and Industry 3662, Radio, TV Communication Equipment, \$21 million.

## 3572—Typewriters

This industry comprises establishments primarily engaged in manufacturing typewriters and parts. For a detailed list of products of Industry 3572, refer to table 6.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Typewriters Industry in 1958 totaled \$238 million. This included shipments of typewriters (primary products), valued at \$188 million, shipments of other products (secondary products) valued at \$41 million, and miscellaneous receipts of \$9 million.

This industry's shipments of typewriters (primary products) in 1958 represented 82 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 80 percent.

Industry 3572 shipments of typewriters (primary products) in 1958 represented 99 percent (coverage ratio) of these products valued at \$188 million shipped by all industries. In 1954, the coverage ratio was 97 percent.

## 3576—Scales and Balances, Except Laboratory

This industry comprises establishments primarily engaged in manufacturing weighing and force measuring machines and devices of all types, except those regarded as scientific apparatus for laboratory and experimental work which are classified in Industry 3811. For a detailed list of products of Industry 3576, refer to table 6, product codes 3576011 to 3576083.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number and not significantly changed in comparison with data classified by the previous system. Establishments primarily engaged in producing laboratory scales, formerly classified in this industry, are now included in Industry 3811, Scientific Instruments.

Value of shipments and other receipts of the Scales and Balances industry in 1958 totaled \$78 million. This included shipments of scales and balances (primary products), valued at \$69 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts of \$3 million.

This industry's shipments of scales and balances (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 90 percent.

Industry 3576 shipments of scales and balances (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$71 million shipped by all industries. In 1954, the coverage ratio was 96 percent.

## 3579—Office Machines, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing office machines and devices, not elsewhere classified. Establishments primarily engaged in manufacturing computing machines and cash registers are classified in Industry 3571, typewriters in Industry 3572, and photocopy and microfilm equipment in Industry



3861. For a detailed list of products of Industry 3579, refer to table 6.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

According to the 1945 Standard Industrial Classification, automatic merchandising machines and amusement and other coin operated machines were classified in Industry 3575. However, the 1954 Census of Manufactures included establishments primarily producing these products in Industry 3579. These two industries were combined partly because automatic merchandising machines are produced by a group of manufacturers distinct from those which produce amusement and other coin-operated machines and also because the data for a coin-operated machines industry would have very limited significance as a result of the classification of many types of coin operated machines in other industries. According to the 1957 edition of the Standard Industrial Classification, establishments primarily producing coin-operated vending machines and mechanisms are now classified in Industry 3581, Automatic Vending Machines. Establishments primarily engaged in producing coin-operated amusement machines,

such as pinball, bell type machines and consoles, strength testing, skill games, and other arcade pieces, formerly classified in Industry 3579, are now classified in Industry 3999, Miscellaneous Products, N.E.C.

Value of shipments and other receipts of the Office Machines, N.E.C., Industry in 1958 totaled \$265 million. This included shipments of addressing, dictating, duplicating, and other office machines, n.e.c. (primary products), valued at \$180 million, shipments of other products (secondary products), valued at \$34 million, and miscellaneous receipts of \$51 million.

This industry's shipments of addressing, dictating, duplicating, and other office machines, n.e.c. (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of carbon paper, stencil paper, and inked ribbons, \$8 million.

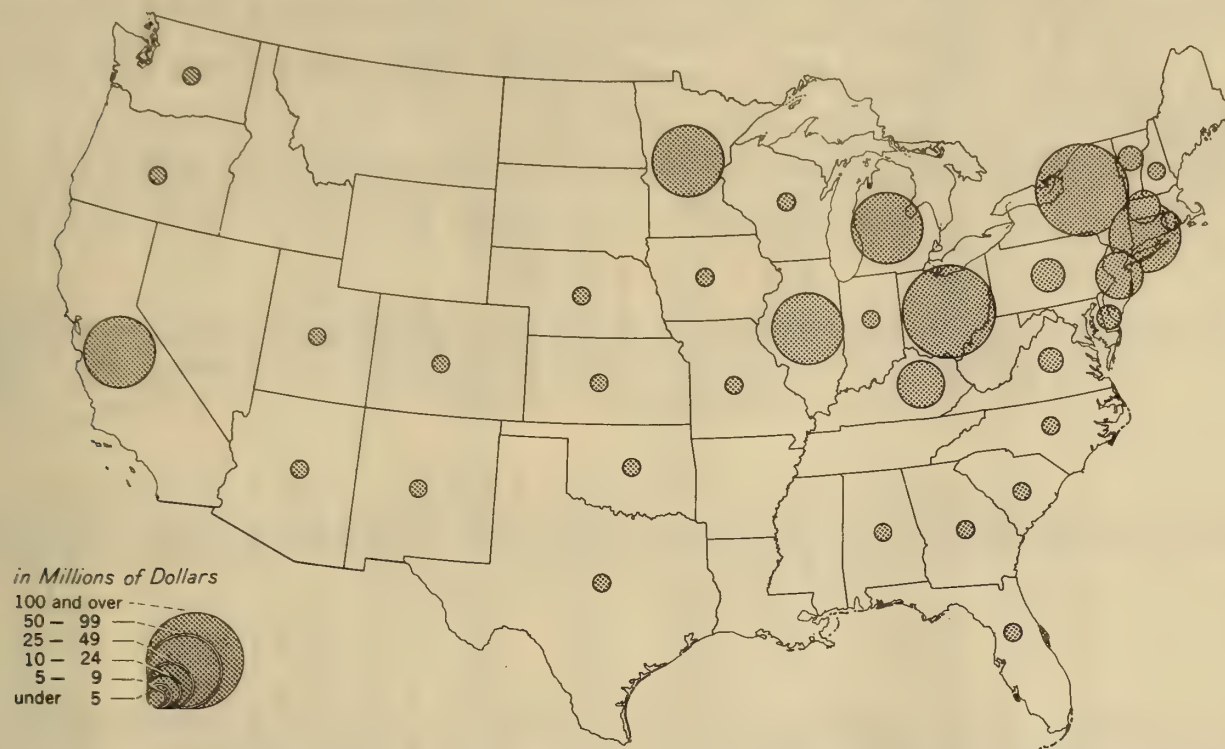
Industry 3579 shipments of addressing, dictating, duplicating, and other office machines, n.e.c. (primary products) in 1958 represented 84 percent (coverage ratio) of these products valued at \$214 million shipped by all industries. Other industries shipping addressing, dictating, duplicating, and other office machines, n.e.c. (primary products) consisted mainly of Industry 3315, Steel Wire Drawing, \$7 million; Industry 3555, Printing Trade Machinery, \$5 million; and Industry 3571, Computing and Related Machines, \$5 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## OFFICE, COMPUTING, AND ACCOUNTING MACHINES: SIC 357

Value Added by Manufacture by State: 1958



Includes Industries 3571, 3572, 3576 and 3579. See Table 2.

Bureau of the Census. M-58-D357

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3571 (Old SIC 3571)	Computing and related machines:														
	1958 new SIC <sup>8</sup> .....	119	136	71	80,864	473,455	50,523	98,497	269,013	579,103	528,065	1,104,194	61,494	94	91
	1958 old SIC <sup>8</sup> .....	(NA)	140	74	82,442	480,845	51,543	100,472	273,770	590,897	530,784	1,118,683	61,980	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	77,070	459,219	51,862	113,755	278,024	658,563	465,279	1,008,095	105,037	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	65,477	378,348	48,315	107,963	252,099	591,408	317,836	767,483	59,126	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	60,135	303,883	46,933	92,464	218,719	407,729	252,417	661,775	33,911	(NA)	(NA)
	1954.....	73	84	51	56,692	275,809	45,014	88,484	200,953	405,414	202,217	614,265	31,571	78	93
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	56,789	259,182	46,287	91,363	198,307	384,634	186,031	570,665	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	53,256	238,180	43,869	86,615	184,008	342,369	138,053	480,422	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	49,974	217,304	41,792	85,079	167,431	310,100	114,837	424,937	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	42,664	167,293	35,911	73,065	133,015	260,684	84,676	345,360	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	41,112	152,913	35,602	71,863	125,605	230,387	73,302	303,689	(NA)	(NA)	(NA)
	1947.....	50	51	29	45,611	152,678	40,467	85,445	127,569	231,207	62,262	293,469	22,295	94	94
	1939.....	(NA)	38	(NA)	(NA)	(NA)	16,517	(NA)	25,798	71,929	10,400	82,329	(NA)	(NA)	(NA)
3572	Typewriters:														
	1958.....	16	18	13	19,779	84,467	16,310	29,748	64,612	168,877	67,691	238,173	9,779	82	99
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	24,058	95,026	21,043	40,676	81,610	214,757	76,893	265,076	30,426	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	22,075	86,703	19,466	38,554	74,588	182,116	58,202	229,849	13,775	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,931	75,935	18,147	35,064	68,165	162,328	47,808	207,056	2,704	(NA)	(NA)
	1954.....	15	18	14	18,435	67,399	16,699	32,589	60,075	136,953	44,722	178,799	2,789	80	97
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,822	73,341	17,392	(NA)	62,248	135,121	46,466	181,587	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,057	73,627	18,567	(NA)	62,792	133,691	41,793	175,484	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	22,778	79,263	20,564	(NA)	69,701	141,155	36,739	177,894	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,692	61,408	17,906	(NA)	54,129	113,764	27,845	141,609	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,603	50,350	15,683	(NA)	43,830	87,704	27,227	114,931	(NA)	(NA)	(NA)
	1947.....	23	28	(NA)	26,604	73,177	23,838	49,684	63,509	121,385	32,539	153,924	(NA)	90	97
	1939.....	(NA)	18	(NA)	(NA)	(NA)	16,195	(NA)	19,214	29,096	10,830	39,926	(NA)	(NA)	(NA)
	1937.....	(NA)	21	(NA)	22,930	28,488	21,440	(NA)	25,956	31,614	13,392	45,006	(NA)	(NA)	(NA)
	1935.....	(NA)	20	(NA)	16,920	18,796	15,398	(NA)	16,632	25,228	8,630	33,858	(NA)	(NA)	(NA)
	1933.....	(NA)	14	(NA)	10,361	8,549	9,591	(NA)	7,565	13,209	3,256	16,465	(NA)	(NA)	(NA)
	1931.....	(NA)	20	(NA)	(NA)	(NA)	10,924	(NA)	10,328	18,272	3,785	22,057	(NA)	(NA)	(NA)
	1929.....	(NA)	26	(NA)	18,409	25,656	16,945	(NA)	22,319	54,609	7,249	61,858	(NA)	(NA)	(NA)
	1927.....	(NA)	26	(NA)	17,222	22,237	15,603	(NA)	19,398	45,383	9,936	55,319	(NA)	(NA)	(NA)
3576 (Old SIC 3576)	Scales and balances:														
	1958 new SIC <sup>8</sup> .....	71	72	32	5,347	26,574	3,515	6,886	14,974	49,125	27,844	78,335	1,406	91	97
	1958 old SIC <sup>8</sup> .....	(NA)	79	38	5,733	28,335	3,798	7,417	16,077	52,008	28,597	81,999	1,512	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,646	34,965	4,843	9,091	21,335	64,207	30,563	91,350	(S)	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,393	31,054	4,789	8,903	19,563	60,116	28,793	86,114	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	5,687	26,271	4,300	8,712	17,067	51,087	24,685	74,878	(S)	(NA)	(NA)
	1954.....	77	78	35	5,381	21,276	4,074	7,636	14,193	45,535	20,135	64,182	1,103	90	96
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,683	26,061	4,659	9,705	15,991	53,548	25,104	78,652	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,519	24,300	5,166	10,688	16,681	46,080	31,693	77,773	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,117	24,676	4,443	8,838	13,365	42,426	20,671	63,097	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,122	19,639	4,385	8,249	11,991	38,013	16,764	54,777	(NA)	(NA)	(NA)
	1947.....	73	75	32	6,526	18,849	4,385	10,041	12,847	34,766	19,776	54,542	1,457	91	92
	1939.....	(NA)	56	(NA)	3,757	5,566	2,839	(NA)	3,306	9,363	4,987	14,350	(NA)	(NA)	(NA)
	1937.....	(NA)	57	(NA)	4,139	5,797	3,299	(NA)	4,115	11,998	5,858	17,856	(NA)	(NA)	(NA)
	1935.....	(NA)	56	(NA)	3,271	4,195	2,468	(NA)	2,633	9,567	3,816	13,383	(NA)	(NA)	(NA)
	1933.....	(NA)	45	(NA)	2,896	2,883	2,187	(NA)	1,825	6,171	2,162	8,333	(NA)	(NA)	(NA)
	1931.....	(NA)	54	(NA)	(NA)	(NA)	2,814	(NA)	3,233	3,644	10,917	14,561	(NA)	(NA)	(NA)
	1929.....	(NA)	59	(NA)	6,183	8,845	4,118	(NA)	5,995	22,943	7,438	30,381	(NA)	(NA)	(NA)
	1927.....	(NA)	60	(NA)	4,988	7,891	3,906	(NA)	5,461	17,201	7,454	24,655	(NA)	(NA)	(NA)
	1925.....	(NA)	71	(NA)	5,397	8,242	4,292	(NA)	5,783	19,888	7,349	27,237	(NA)	(NA)	(NA)
	1923.....	(NA)	65	(NA)	5,289	7,794	4,245	(NA)	5,500	17,563	6,594	24,157	(NA)	(NA)	(NA)
	1921.....	(NA)	69	(NA)	4,804	6,290	3,720	(NA)	4,428	11,169	4,716	15,885	(NA)	(NA)	(NA)
	1919.....	(NA)	79	(NA)	6,783	8,800	5,432	(NA)	6,534	13,647	6,994	20,641	(NA)	(NA)	(NA)
	1914.....	(NA)	83	(NA)	5,443	4,168	4,467	(NA)	2,934	6,560	3,174	9,734	(NA)	(NA)	(NA)
	1909.....	(NA)	87	(NA)	4,231	3,001	3,559	(NA)	2,186	6,082	2,704	8,786	(NA)	(NA)	(NA)
	1904.....	(NA)	85	(NA)	3,564	2,231	3,133	(NA)	1,755	4,370	1,633	6,003	(NA)	(NA)	(NA)
	1899.....	(NA)	86	(NA)	3,080	1,734	2,775	(NA)	1,437	3,707	1,533	5,240	(NA)	(NA)	(NA)
3579 (Old SIC 3579)	Office machines, nec.:														
	1958.....	119	120	72	15,625	82,984	10,600	21,227	50,108	173,424	90,596	264,513	11,817	84	84

NA Not available. <sup>†</sup>Revised.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

Footnotes continued on next page.



Footnotes for Table 1—MC-35F

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3571	412,048
3572	131,306
3576	44,047

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954
3571	497,091	202,217
3572	62,444	42,133
3576	27,269	20,155

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)	
	1958	1954
3571	1,061,389	514,265
3572	230,116	173,439
3576	77,632	64,182

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the 1958 figures for this industry are not strictly comparable with those for earlier years. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are not considered significant.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				Totals for industry on old SIC <sup>1</sup>			
	Number of establishments		Number of employees	Adjusted value added by manufacture (\$1,000)	Number of establishments		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3579—Office machines, nec.....	120	72	15,625	173,424	xxx	xxx	xxx	xxx
Old Industry 3579—Office machines, nec.....	120	72	15,625	173,424	r226	r118	r23,072	r226,848

<sup>1</sup>These totals may represent slight revisions from the preliminary figures previously published for this industry.

<sup>r</sup>Revised.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3571	Computing and related machines, total.....	136	71	80,864	473,455	50,523	98,497	269,013	<sup>F</sup> 579,103	1,104,194	61,494	56,692	412,048	45,611
	New England.....	21	9	2,791	13,647	2,020	3,772	7,275	17,215	30,180	643	3,449	23,729	(D)
	Massachusetts...	12	5	1,318	8,640	769	1,640	3,267	8,631	15,150	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	42	25	35,517	200,726	18,347	36,034	92,810	<sup>F</sup> 193,238	514,237	23,322	22,575	157,034	(D)
	New York.....	33	18	30,752	176,245	14,909	29,070	76,363	<sup>F</sup> 162,427	444,292	22,080	20,142	142,490	12,634
	North Central....	22	14	31,071	189,156	23,772	46,010	136,770	280,206	422,190	25,812	25,439	193,354	24,524
	South.....	9	3	1,192	6,933	951	1,911	5,072	16,939	20,319	2,514	540	4,340	(D)
	West.....	42	20	10,293	62,993	5,433	10,770	27,086	71,505	117,268	9,203	4,687	33,588	(D)
	California.....	37	17	9,373	55,696	5,216	10,330	26,079	68,832	113,875	7,108	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3572	Typewriters, total..	18	13	19,779	84,467	16,310	29,748	64,612	168,877	238,173	9,779	18,435	131,306	26,604
	New York.....	8	5	9,237	38,188	7,979	15,340	32,116	81,097	109,973	1,911	8,850	75,055	12,943
	All other States..	10	8	10,542	46,279	8,331	14,408	32,496	87,780	128,200	7,868	9,585	56,251	13,661
3576	Scales and balances, total....	72	32	5,347	26,574	3,515	6,886	14,974	49,125	78,335	1,406	5,381	44,047	6,526
	Massachusetts...	4	2	140	1,001	86	197	534	1,068	1,603	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New York.....	8	4	794	3,644	573	1,110	2,372	6,303	10,475	( <sup>2</sup> )	823	5,168	703
	Ohio.....	6	4	1,423	7,168	804	1,520	3,504	14,431	23,427	( <sup>2</sup> )	1,315	14,361	2,146
	Illinois.....	13	9	1,108	5,243	779	1,493	3,031	10,520	16,638	( <sup>2</sup> )	907	8,205	1,114
	All other States..	41	13	1,882	9,518	1,273	2,566	5,533	16,803	26,192	610	(D)	(D)	(D)
3579	Office machines, nec, total.....	120	72	15,625	82,984	10,600	21,227	50,108	173,424	264,513	11,817	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New England.....	17	10	4,372	23,347	3,052	6,408	15,121	48,258	65,614	6,341	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic...	38	24	3,113	15,428	2,187	4,315	9,536	24,194	41,846	1,016	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New York.....	24	16	1,674	8,525	1,133	2,272	5,162	14,507	27,372	584	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New Jersey.....	9	4	1,103	5,431	754	1,439	3,179	7,738	11,566	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pennsylvania....	5	4	336	1,472	300	604	1,195	1,949	2,908	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central	38	27	7,312	40,532	4,739	9,195	23,282	93,547	145,268	4,066	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	6	2	83	347	64	124	224	802	1,220	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South and West....	21	9	745	3,330	558	1,185	1,945	6,623	10,565	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>F</sup>Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3571, Computing and Related Machines: New England—New Hampshire, 1 (100-249); Connecticut, 8 (1,000-2,499); Middle Atlantic—New Jersey, 4 (1,924); Pennsylvania, 5 (2,841); North Central—Ohio, 4 (14,057); Indiana, 1 (20-99); Illinois, 5 (1,656); Michigan, 8 (9,017); Wisconsin, 1 (250-499); Minnesota, 2 (5,000 and over); Nebraska, 1 (1-19); South—Maryland, 1 (250-499); Virginia, 2 (500-999); Florida, 3 (100-249); Kentucky, 1 (1-19); Texas, 1 (1-19); West—New Mexico, 1 (20-99); Arizona, 1 (500-999); Utah, 1 (1-19); Washington, 1 (20-99); Oregon, 1 (1-19).

SIC 3572, Typewriters: New England—Connecticut, 2 (5,000 and over); Middle Atlantic—New Jersey, 1 (250-499); East North Central—Illinois, 2 (250-499); South Atlantic—Maryland, 1 (1-19); North Carolina, 2 (20-99); East South Central—Kentucky, 1 (1,000-2,499); Mountain—Colorado, 1 (1-19).

SIC 3576, Scales and Balances: Northeast—Vermont, 2 (500-999); New Jersey, 5 (250-499); Pennsylvania, 6 (100-249); North Central—Indiana, 3 (20-99); Michigan, 1 (1-19); Wisconsin, 1 (1-19); Iowa, 1 (1-19); Missouri, 2 (20-99); South—Maryland, 2 (1-19); District of Columbia, 1 (1-19); Georgia, 1 (20-99); Florida, 2 (20-99); Kentucky, 2 (20-99); Alabama, 1 (1-19); Oklahoma, 1 (1-19); West—Colorado, 2 (1-19); Utah, 1 (1-19); Oregon, 1 (1-19); California, 6 (100-249).

SIC 3579, Office Machines, NEC: New England—Massachusetts, 8 (500-999); Rhode Island, 1 (1-19); Connecticut, 8 (3,504); East North Central—Ohio, 6 (3,477); Indiana, 1 (20-99); Illinois, 25 (3,680); Michigan, 3 (20-99); Wisconsin, 3 (20-99); West North Central—Minnesota, 4 (20-99); Missouri, 1 (1-19); Kansas, 1 (1-19); South and West—Virginia, 1 (20-99); North Carolina, 1 (250-499); South Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 2 (1-19); Oklahoma, 2 (1-19); Texas, 1 (1-19); Washington, 1 (1-19); Oregon, 1 (1-19); California, 10 (250-399).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This state or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such states. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).



Table 3.—Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Computing and related machines (SIC 3571)	Typewriters (SIC 3572)	Scales and balances (SIC 3576)	Office machines, nec (SIC 3579)
Primary product specialization ratio <sup>1</sup> .....	94	82	91	84
Coverage ratio <sup>2</sup> .....	91	99	97	84
Number of establishments, total.....	136	18	72	120
With 1-19 employees.....	65	5	40	48
With 20-99 employees.....	23	3	18	42
With 100 employees or more.....	48	10	14	30
Proprietors and working partners.....Number..	37	...	25	24
All employees:				
Number (average for the year).....	80,864	19,779	5,347	15,625
Payroll.....\$1,000..	473,455	84,467	26,574	82,984
Production workers:				
Number (average for the year).....	50,523	16,310	3,515	10,600
March.....	50,102	15,538	3,468	10,472
May.....	50,013	14,672	3,371	10,444
August.....	50,688	16,532	3,573	10,728
November.....	51,803	18,499	3,678	10,773
Man-hours.....1,000..	98,497	29,748	6,886	21,227
January-March.....do....	25,090	6,143	1,716	5,257
April-June.....do....	25,169	7,339	1,667	5,371
July-September.....do....	22,027	7,113	1,630	4,964
October-December.....do....	26,161	9,151	1,844	5,613
Wages.....\$1,000..	269,013	64,612	14,974	50,108
Cost of materials, etc., total.....do....	528,065	67,691	27,844	90,596
Materials, parts, containers, and supplies consumed.....do....	469,376	60,348	26,147	66,555
Cost of resales.....do....	30,974	5,247	575	20,680
Fuels consumed.....do....	2,909	903	405	550
Electricity purchased.....do....	4,301	1,124	375	1,016
Contract work.....do....	20,505	69	342	1,795
Value of shipments (including resales), total.....do....	1,104,194	238,173	78,335	264,513
Value of resales.....do....	42,805	8,057	703	42,764
Value added by manufacture, adjusted.....do....	7579,103	168,877	49,125	173,424
Manufacturers' inventories:				
Beginning of year, total.....do....	392,156	66,862	19,846	66,947
Finished products.....do....	60,840	14,098	5,037	27,406
Work-in-process.....do....	285,076	43,891	7,578	30,227
Materials, supplies, fuel, etc.....do....	46,240	8,873	7,231	9,314
End of year, total.....do....	379,409	64,368	17,245	67,196
Finished products.....do....	73,939	12,871	5,031	26,747
Work-in-process.....do....	277,827	43,513	6,218	30,393
Materials, supplies, fuel, etc.....do....	27,643	7,984	5,995	10,056
Expenditures for plant and equipment, total.....do....	61,917	9,957	1,422	12,713
New, total.....do....	61,494	9,779	1,406	11,817
New structures and additions to plant.....do....	21,549	1,822	( <sup>3</sup> )	5,391
New machinery and equipment.....do....	39,945	7,957	1,122	6,426
Used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	896

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. <sup>R</sup> Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3571	Computing and related machines:											
	Number of establishments.....	136	35	17	13	12	11	7	15	10	9	7
	All employees:											
	Number.....	80,864	71	106	187	405	731	1,153	5,491	7,527	14,389	50,804
	Payroll.....\$1,000..	473,455	299	538	908	2,410	4,044	5,593	29,070	39,543	79,972	311,078
	Value added, adjusted..do....	<sup>†</sup> 579,103	809	888	1,491	4,036	4,837	11,498	52,474	<sup>†</sup> 42,362	116,134	344,574
	Value of shipments.....do....	1,104,194	1,052	1,259	2,244	6,238	8,373	21,477	72,616	76,885	208,056	705,994
	Capital expend., new...do....	61,494	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4,407	5,122	13,935	37,024
3572	Typewriters:											
	Number of establishments.....	18	2	2	1	3	...	1	2	...	4	3
	All employees:											
	Number.....	19,779	34	(D)	(D)	973	...	(D)	(D)	...	7,324	11,448
	Payroll.....\$1,000..	84,467	129	(D)	(D)	3,831	...	(D)	(D)	...	35,838	44,669
	Value added, adjusted..do....	168,877	167	(D)	(D)	10,007	...	(D)	(D)	...	71,134	87,569
	Value of shipments.....do....	238,173	375	(D)	(D)	12,414	...	(D)	(D)	...	98,951	126,433
	Capital expend., new...do....	9,779	( <sup>1</sup> )	(D)	...	( <sup>1</sup> )	...	(D)	(D)	...	6,629	3,020
3576	Scales and balances:											
	Number of establishments.....	72	15	13	12	9	9	9	3	2	...	...
	All employees:											
	Number.....	5,347	37	77	169	262	558	1,498	2,746	(D)	...	...
	Payroll.....\$1,000..	26,574	131	386	927	1,416	3,289	7,096	13,329	(D)	...	...
	Value added, adjusted..do....	49,125	268	790	1,637	2,548	5,147	17,709	21,026	(D)	...	...
	Value of shipments.....do....	78,335	468	1,383	2,806	4,202	8,328	26,951	34,197	(D)	...	...
	Capital expend., new...do....	1,406	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	738	(D)	...	...
3579	Office machines, nec:											
	Number of establishments.....	120	25	13	10	26	16	12	13	1	3	1
	All employees:											
	Number.....	15,625	56	85	139	837	1,042	1,604	4,444	7,418	(D)	(D)
	Payroll.....\$1,000..	82,984	240	345	742	3,918	4,663	7,493	21,978	43,605	(D)	(D)
	Value added, adjusted..do....	173,424	401	685	1,847	7,219	8,276	12,810	34,514	107,672	(D)	(D)
	Value of shipments.....do....	264,513	800	1,469	2,660	11,502	15,417	21,213	55,806	155,646	(D)	(D)
	Capital expend., new...do....	11,817	( <sup>1</sup> )	( <sup>1</sup> )	638	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	896	9,405	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>†</sup>Revised.

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Col. B Col. B+C (percent)	(\$1,000)	(\$1,000)	(\$1,000)	Col. G Col. F (percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
3571	Computing and related machines..1958..	1,104,194	944,581	65,626	93,987	94	1,038,802	944,581	94,221	91
	.....1954..	624,216	468,445	133,825	21,946	78	501,311	468,445	32,866	93
3572	Typewriters.....1958..	238,173	188,021	41,118	9,034	82	188,556	188,021	535	99
	.....1954..	178,799	137,930	34,710	6,159	80	141,677	137,930	3,747	97
3576	Scales and balances.....1958..	78,335	68,565	7,122	2,648	91	70,992	68,565	2,427	97
	.....1954..	65,052	56,853	6,209	1,990	90	59,409	56,853	2,556	96
3579	Office machines, nec.....1958..	264,513	180,416	33,510	50,587	84	213,861	180,416	33,445	84

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries.)

Prod. class code	Computing and related machines industry	Computing and related machines (SIC 3571)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,104,194	xxx	xxx
35712	Primary products, total.....	944,581	94,221	1,038,802
35710	Computing and related machines including cash registers.....	939,404	93,576	1,032,980
	Computing and related machines, nec.....	5,177	645	5,822
	Secondary products, total.....	65,626	xxx	xxx
35790	Addressing, dictating, duplicating and other office machines, nec.....	4,997	xxx	xxx
3662-	Radio, TV communication goods.....	3,082	xxx	xxx
36795	Other electronic components and accessories, nec.....	12,230	xxx	xxx
38111	Aircraft, flight, nautical, and navigation instruments and automatic pilots.....	22,090	xxx	xxx
	Other secondary products.....	23,227	xxx	xxx
	Miscellaneous receipts, total.....	93,987	xxx	xxx
	Contract and commission work.....	6,189	xxx	xxx
	Sale of products bought and resold.....	42,805	xxx	xxx
	Research and development.....	739	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	40,514	xxx	xxx
	Other.....	3,940	xxx	xxx
Prod. class code	Typewriters industry	Typewriters (SIC 3572)	Other industries	All industries
	Total shipments and receipts of the industry.....	238,173	xxx	xxx
35720	Typewriters.....	188,021	535	188,556
	Secondary products, total.....	41,118	xxx	xxx
35790	Addressing, dictating, duplicating and other office machines, nec.....	3,476	xxx	xxx
	Other secondary products.....	37,642	xxx	xxx
	Miscellaneous receipts, total.....	9,034	xxx	xxx
	Products bought and resold.....	8,057	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	638	xxx	xxx
	Other.....	339	xxx	xxx
Prod. class code	Scales and balances industry	Scales and balances (SIC 3576)	Other industries	All industries
	Total shipments and receipts of the industry.....	78,335	xxx	xxx
35760	Scales and balances.....	68,565	2,427	70,992
	Secondary products, total.....	7,122	xxx	xxx
35512	Commercial food products machinery.....	2,018	xxx	xxx
	Other secondary products.....	5,104	xxx	xxx
	Miscellaneous receipts, total.....	2,648	xxx	xxx
	Contract and commission work.....	214	xxx	xxx
	Sales of products bought and resold.....	703	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	1,668	xxx	xxx
	Other.....	63	xxx	xxx
Prod. class code	Office machines nec. industry	Office machines, nec (SIC 3579)	Other industries	All industries
	Total shipments and receipts of the industry.....	264,513	xxx	xxx
35790	Addressing, dictating, duplicating and other office machines, nec.....	180,416	533,445	213,861
	Secondary products, total.....	33,510	xxx	xxx
28930	Printing ink.....	3,247	xxx	xxx
35712	Computing and related machines including cash registers.....	2,061	xxx	xxx
39550	Carbon paper, stencil paper, and inked ribbons.....	7,817	xxx	xxx
	Other.....	20,385	xxx	xxx
	Miscellaneous receipts, total.....	50,587	xxx	xxx
	Contract and commission work.....	1,648	xxx	xxx
	Sales of products bought and resold.....	42,764	xxx	xxx
	Other.....	6,175	xxx	xxx

<sup>1</sup>Includes \$32,963 thousand shipped by Industry 3572, Typewriters; \$2,061 thousand shipped by Industry 3579, Office Machines, NEC; \$20,874 thousand shipped by Industry 3662, Radio, TV Communication Equipment; \$3,732 thousand shipped by Industry 3729, Aircraft Equipment, NEC; and \$2,401 thousand shipped by Industry 3811, Scientific Instruments; in addition the following industries had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures: Industry 2542, Metal Partitions and Fixtures; Industry 3552, Textile Machinery; Industry 3611 Electric Measuring Instruments; and Industry 3721, Aircraft.

<sup>2</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 19990, Ordnance and accessories, nec; 27516, Other general job printing (letterpresses); 37291, Other aircraft parts and auxiliary equipment; and 39550, Carbon paper, stencil paper, and inked ribbons.

<sup>3</sup>Includes product class 25223, Cabinets and cases, which totaled \$2 million or more but was withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes product class 34443, Other sheetmetal work, which totaled \$2 million or more but was withheld to avoid disclosing individual company figures.

<sup>5</sup>Includes \$7,235 thousand shipped by Industry 3315, Steel Wire Drawing; \$5,289 thousand shipped by Industry 3555, Printing Trades Machinery; \$4,997 thousand shipped by Industry 3571, Computing and Related Machines; and \$3,476 thousand shipped by Industry 3572, Typewriters; in addition Industry 2761, Manifold Business Forms, had shipments of \$2 million or more which are withheld to avoid disclosing individual company figures.

<sup>6</sup>Includes product class 28993, Essential oils, fireworks, pyrotechnics and chemical and chemical preparations, nec which totaled \$2 million or more but was withheld to avoid disclosing individual company figures.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6.-Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3571----	Computing and related machines, total.....	xxx	1,038,802	xxx	482,729
	Computing and accounting machines, including cash registers, coded media machines, etc., and parts and attachments:				
3571212 (part)	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	<sup>1</sup> 966,652	xxx	482,729
	As reported on Census Annual Form MA-35R, total <sup>1</sup> .....	xxx	<sup>1</sup> 945,583	xxx	...
	Accounting and bookkeeping machines (including billing machines with accounting registers).....	39,033	102,281	45,156	80,283
	Punched card systems and cash registers <sup>2</sup> .....	xxx	194,498	xxx	190,892
	Adding machines, total.....	304,361	47,261	287,161	48,463
	Full keyboard electric.....	62,972	10,648	75,004	15,188
	10-key keyboard electric.....	157,058	27,334	92,189	21,456
	Full keyboard hand.....	45,854	3,935	63,140	5,634
	10-key keyboard hand.....	38,477	5,344	56,828	6,185
	Calculating machines, total.....	96,971	47,435	94,206	39,326
	Rotary and key driven hand calculating machines.....	3,505	1,171	6,656	2,817
	Rotary and key driven electric calculating machines and printing calculators.....	93,466	46,264	87,550	36,509
	Electronic computing and associated information processing equipment, total.....	(NA)	<sup>3</sup> 324,299	xxx	
	Digital:				
	General purpose.....	3,244	<sup>3</sup> 261,201	xxx	
	All other.....	(NA)		xxx	
	Analog.....	267	9,067	xxx	35,576
	Electronic computing equipment, nsk <sup>4</sup> .....	xxx	54,031	xxx	
	Coded (stored) media data processing machines, other than punched card, sold separately, total.....	9,023	16,154	xxx	
	Adding machines.....	897	902	xxx	
	Coded (stored) media data processing machines, nec (including accounting, bookkeeping and billing machines, cash registers, key operated and calculating machines).....	8,126	15,252	xxx	
	Other computing and calculating devices, nec.....	8,358	8,365	xxx	
	Parts and attachments shipped by establishments manufacturing complete office, computing, and accounting machines.....	xxx	161,594	xxx	<sup>5</sup> 64,945
	Rebuilt computing and accounting machines, and rebuilt cash registers.....	xxx	37,485	xxx	18,612
	Coin and currency handling machines.....	xxx	6,211	xxx	4,632
3571212 (part)	Parts and attachments shipped by establishments not manufacturing complete office, computing, and accounting machines.....	xxx	41,022	xxx	...
3571212 (part)	Other computing and related machines not included on Census Annual Form MA-35R <sup>6</sup> .....	xxx	25,306	xxx	...
3571000	Computing and accounting machines, nsk.....	xxx	5,822	xxx	...
3572----	Typewriters and parts:				
3572010	Complete typewriters and parts as reported in Census of Manufactures <sup>7</sup> .....	xxx	<sup>1</sup> 188,556	xxx	141,677
	Complete typewriters and parts as reported in Census Annual Form MA-35R, total <sup>8</sup> .....	xxx	<sup>1</sup> 183,612	xxx	(NA)
	Complete typewriters, total.....	1,223,508	164,896	xxx	123,497
	Standard, total.....	1,215,874	150,892	1,111,025	117,580
	Nonportable, total.....	553,655	103,885	596,510	86,292
	Electric.....	199,613	55,388	117,979	32,341
	Manual.....	354,042	48,497	478,531	53,951
	Portable.....	662,219	47,007	514,515	31,288
	Specialized typewriters and typewriter principle machines (including continuous form handling machines without accounting registers, office composing machines, stencil cutting typewriters, and reproduction typewriters).....	7,634	14,004	(NA)	5,917
	Parts and attachments for typewriters, total.....	xxx	19,822	xxx	18,180
	Made by manufacturers of complete typewriters.....	xxx	18,716	xxx	
	Made by other manufacturers.....	xxx	1,106	xxx	
3576----	Scales and balances, total.....	xxx	70,992	xxx	56,750
3576011	Railroad track and motor truck scales.....	xxx	6,477	xxx	4,878
	Industrial scales:				
3576021	Bench and portable.....	xxx	6,988	xxx	6,171
3576023	Built-in scales (includes floor and dormant).....	xxx	2,961	xxx	2,401
3576026	Predetermined-weight scales and automatic weighing and filling..	xxx	11,695	xxx	9,023
3576029	Miscellaneous industrial scales (includes special purpose, crane, suspension, tank, and hopper scales).....	xxx	7,244	xxx	5,413



Table 6.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3576---	Scales and balances—Continued				
	Retail and commercial scales:				
3576031	Computing.....	<sup>T</sup> 29,000	11,627	<sup>T</sup> 35,000	6,179
3576035	Miscellaneous (includes non-computing counter, cotton beams and steel yards, egg grading scales and hanging scales for retail use).....	xxx	1,329	xxx	1,364
	Household and person weighing scales:				
3576041	Bathroom.....	<sup>T</sup> 2,936,000	10,884	<sup>T</sup> 2,677,000	10,450
3576043	Person-weighing scales, coin operated and free weighing (except baby scales).....	<sup>T</sup> 24,000	1,293	<sup>T</sup> 27,000	1,447
3576048	Miscellaneous (kitchen, baby scales, etc.).....	xxx	1,429	xxx	1,892
3576051	Mailing and parcel post scales.....	<sup>T</sup> 126,000	2,025	xxx	1,247
3576083	Accessories, attachments, and parts for scales and balances (sold separately).....	xxx	4,881	xxx	6,285
3576000	Scales and balances, nsk.....	xxx	2,159	xxx	xxx
3579---	Office and store machines, nec , total.....	xxx	213,861	xxx	159,239
3579010 (part)	As reported in the Census of Manufactures <sup>1</sup> .....	xxx	<sup>1</sup> 185,883	xxx	159,239
	As reported on Census Annual Form MA-35R, total <sup>1</sup> .....	xxx	<sup>1</sup> 184,452	xxx	xxx
	Duplicating machines, total.....	xxx	33,977	xxx	22,995
	Spirit machines, hand and electric.....	27,785	5,289	84,997	9,776
	Stencil machines, total.....	59,162	5,508		
	Hand.....	47,801	2,068		
	Electric.....	11,361	3,440	xxx	13,219
	Offset.....	9,806	15,572		
	Gelatin and other type machines, including ribbon and ink....	11,248	1,669		
	Parts and attachments for duplicating machines, sold separately.....	xxx	5,939	xxx	( <sup>9</sup> )
	Other office, computing, and accounting machines, nec , total..	xxx	150,475	xxx	136,244
	Autographic registers.....	101,376	1,389	113,835	1,643
	Dictating machines (including dictating, transcribing, shaving, conference, recording, and combination dictating and telephone recording machines but excludes wire and tape recorders).....	91,419	20,546	xxx	20,989
	Check handling machines (including cancelling, cutting, dating, endorsing, numbering, protecting, signing, sorting, and writing machines).....	xxx	13,118	xxx	9,469
	Time recording and time stamp machines, including watchmen's clocks.....	xxx	11,257	xxx	11,691
	Parts and attachments for office and store machines, nec , shipped by establishments manufacturing complete office and store machines.....	xxx	16,135	xxx	20,552
	Addressing and plate embossing machines.....	xxx	88,030	xxx	17,092
	Other office, computing, and accounting machines, nec , (including postage meters and postal permit mailing machines; shorthand writing machines; rebuilt office, computing, and accounting machines, nec , staplers; tape dispensers; envelope opening and sealing machines; label gummers; and price marking machines, etc.).....	xxx		xxx	54,808
3579010 (part)	Parts and attachments shipped by establishments not manufacturing complete office and store machines, nec.....	xxx	18,570	xxx	...
3579000	Office and store machines, nsk.....	xxx	9,408	xxx	...

NA Not available. <sup>T</sup>Revised.

<sup>1</sup>For these products, data for 1958 were also collected on Annual Form MA-35R. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to less than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35R will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report. Some corrections in the 1958 data on MA-35R have been made based on revised figures submitted on the Census of Manufactures reports.

<sup>2</sup>The number of cash registers shipped during 1954 and 1958 totaled 109,865 and 81,021, respectively.

<sup>3</sup>Figures include in some cases the value of leased machines as well as the value of machines sold outright.

<sup>4</sup>Represents primarily computers for aircraft, missiles, and related uses. Figure is based on Census of Manufactures reports.

<sup>5</sup>Includes figures for vest pocket and other simple adding or calculating devices.

<sup>6</sup>Represents automatic voting booths, electronic toll collecting equipment and pari-mutuel computing devices for racetracks.

<sup>7</sup>Includes rebuilt typewriters for which separate figures cannot be shown for 1958 without disclosing figures of individual companies. In 1954, the value of rebuilt typewriters shipped amounted to \$2,300 thousand.

<sup>8</sup>This figure represents complete typewriters and parts and attachments, sold separately, shipped by manufacturers of complete office machines as defined in Census Annual Form MA-35R, "Office Computing and Accounting Machines".

<sup>9</sup>Included with "Parts and attachments for office and store machines, nec."

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954		1958		1954	
			Quantity	De-	Quantity	De-	Quantity	De-	Quantity	De-
				livered cost (\$1,000)		livered cost (\$1,000)		livered cost (\$1,000)		livered cost (\$1,000)
			INDUSTRY 3571—COMPUTING AND RELATED MACHINES				INDUSTRY 3572—TYPEWRITERS			
	Materials, parts, containers and supplies, total.....		xxx	469,376	xxx	173,851	xxx	60,348	xxx	37,385
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons	12,609	3,687	12,966	2,555	9,074	3,648	4,113	1,004
331212	Sheet and strip.....	do.	25,411	6,080	25,293	5,061	13,044	2,955	18,426	3,557
331213	Plates.....	do.	746	279	1,783	507	xxx	xxx	xxx	xxx
331215	Structural shapes.....	do.	2,434	545			xxx	xxx	xxx	xxx
331217	Wire and wire products.....	do.	955	1,024			xxx	xxx	xxx	xxx
331219	All other carbon steel mill shapes and forms.....	do.	435	247			522	451	1,210	564
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.	449	346	485	270	196	150	240	136
331225	All other alloy steel mill shapes and forms.....	do.	916	536	1,504	746	193	193		
331231	Stainless steel mill shapes and forms.....	do.	258	303	369	441	78	104	xxx	xxx
	Aluminum and aluminum-base alloy mill shapes and forms:									
335257	Sheet, plate and foil.....	1,000 lbs.	695	487	1,658	857	1,125	935	229	129
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)....	do.	1,124	640						
	Castings (rough and semifinished, received from foundry):									
332311	Steel.....	Short tons	298	246	875	566	1,824	827	xxx	xxx
336111	Aluminum and aluminum-base alloy.....	1,000 lbs.	1,379	1,141	2,668	2,204	3,665	2,676	4,086	2,609
	Fractional horsepower electric motors (under 1 horsepower):									
361412	Timing motors, synchronous and subsynchronous	Number....	285,602	632	398,000	7,321	320,960	2,334	120,000	1,134
361419	All other fractional horsepower electric motors.....	do.	287,110	5,135						
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.	2,576	581	4,000	377	xxx	xxx	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	441,817	xxx	152,946	xxx	45,863	xxx	28,252
973000	Materials and components, nsk.....		xxx	5,650	xxx	xxx	xxx	115	xxx	xxx
			1958		1954		1958			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)		
			INDUSTRY 3576—SCALES AND BALANCES				INDUSTRY 3579—OFFICE MACHINES, NEC			
	Materials, parts, containers, and supplies, total.....		xxx	26,147	xxx	19,036	xxx		66,555	
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons	2,455	614	1,896	353	2,460	654		
331212	Sheet and strip.....	do.	19,666	4,112	14,139	1,962	12,042	2,736		
331213	Plates.....	do.	1,832	331	6,742	1,228	2,399	467	77	
331215	Structural shapes.....	do.	4,244	810				332	81	
331217	Wire and wire products.....	do.	140	118				2,399	996	
331219	All other carbon steel mill shapes and forms.....	do.	1,380	354			3,041	813		
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.	119	80	308	231	422	390		
331225	All other alloy steel mill shapes and forms.....	do.	96	131					599	441
331231	Stainless steel mill shapes and forms.....	do.	321	406	254	267	298	510		
	Aluminum and aluminum-base alloy mill shapes and forms:									
335257	Sheet, plate and foil.....	1,000 lbs.	418	227	508	262	646	433		
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)....	do.								
	Castings (rough and semifinished, received from foundry):									
332311	Steel.....	Short tons	668	345	577	313	147	155		
336111	Aluminum and aluminum-base alloy.....	1,000 lbs.	2,032	1,490	1,263	850	1,697	1,789		
	Fractional horsepower electric motors (under 1 horsepower):									
361412	Timing motors, synchronous and subsynchronous	Number....	5,335	198	xxx	xxx	185,355	734		
361419	All other fractional horsepower electric motors.....	do.								
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	do.	5,718	286	xxx	xxx	xxx	xxx		
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	14,873	xxx	13,570	xxx	48,366		
973000	Materials and components, nsk.....		xxx	1,772	xxx	xxx	xxx	16,932		

NA Not available. <sup>r</sup>Revised.<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."



NOT APPLICABLE TO THIS REPORT

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3571—COMPUTING AND RELATED MACHINES							
Ferrous foundry.....	2	...	1	1	(D)	...	(D)	(D)
Nonferrous foundry (except die casting)...	3	...	1	2	60	...	(D)	(D)
Electroplating.....	27	8	12	7	576	23	106	447
Galvanizing and other hot dip coating....	8	5	3	...	39	14	25	...
Heat treating and annealing.....	24	7	12	5	484	14	103	367
Automatic screw machine department.....	23	4	10	9	812	12	115	685
Machine shop.....	49	12	15	22	3,535	36	147	3,352
Tool and die shop.....	37	6	11	20	2,551	13	132	2,406
Plate or structural fabrication.....	5	1	1	3	142	(D)	(D)	131
Stamping, blanking, and forming.....	33	9	11	13	1,039	19	132	888
Painting, lacquering, and enameling.....	33	13	13	7	520	29	140	351
	INDUSTRY 3572—TYPEWRITERS							
Forging.....	1	...	...	1	(D)	...	...	(D)
Electroplating.....	7	...	3	4	237	...	37	200
Heat treating and annealing.....	9	2	4	3	201	(D)	(D)	(D)
Automatic screw machine department.....	9	...	2	7	532	...	(D)	(D)
Machine shop.....	9	...	3	6	1,256	...	22	1,234
Tool and die shop.....	11	2	2	7	778	(D)	(D)	747
Plate or structural fabrication.....	2	...	...	2	(D)	...	...	(D)
Stamping, blanking, and forming.....	12	2	2	8	1,033	(D)	(D)	1,006
Painting, lacquering, and enameling.....	9	...	4	5	332	...	28	304
	INDUSTRY 3576—SCALES AND BALANCES							
Ferrous foundry.....	3	...	...	3	196	...	...	196
Nonferrous foundry (except die casting)...	2	...	2	...	(D)	...	(D)	...
Forging.....	4	3	1	...	11	(D)	(D)	...
Electroplating.....	6	6	...	...	11	11	...	...
Galvanizing and other hot dip coating....	1	1	...	...	(D)	(D)	...	...
Heat treating and annealing.....	3	2	1	...	27	(D)	(D)	...
Automatic screw machine department.....	6	5	1	...	22	(D)	(D)	...
Machine shop.....	35	13	11	11	769	28	103	638
Tool and die shop.....	18	8	10	...	105	16	89	...
Plate or structural fabrication.....	17	10	4	3	188	23	48	117
Stamping, blanking, and forming.....	19	10	5	4	277	19	46	212
Painting, lacquering, and enameling.....	35	24	10	1	130	40	(D)	(D)
	INDUSTRY 3579—OFFICE MACHINES, NEC.							
Forging.....	2	1	...	1	(D)	(D)	...	(D)
Electroplating.....	13	8	3	2	128	18	(D)	(D)
Galvanizing and other hot dip coating....	4	4	...	...	(D)	(D)	...	...
Heat treating and annealing.....	11	9	2	...	43	(D)	(D)	...
Automatic screw machine department.....	19	7	9	3	220	19	78	123
Machine shop.....	51	9	16	26	1,907	14	146	1,747
Tool and die shop.....	33	10	18	5	444	25	172	247
Plate or structural fabrication.....	1	...	...	1	(D)	...	...	(D)
Stamping, blanking, and forming.....	42	14	17	11	745	32	189	524
Painting, lacquering, and enameling.....	36	24	8	4	246	49	85	112

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry			
	3571	3572	3576	3579
Total number of establishments in the industry.....	136	18	72	120
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	111	16	65	98
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	80-85	over 95	75-80	90-95





# Service Industry Machines and Machine Shops

This report covers 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3581—Automatic Merchandising Machines
- 3582—Commercial Laundry, Dry Cleaning, and Pressing Machines
- 3584—Vacuum Cleaners, Industrial
- 3585—Refrigerators and Refrigeration Machinery, Except Household; and Complete Air Conditioning Units
- 3586—Measuring and Dispensing Pumps
- 3589—Service Industry and Household Machines, Not Elsewhere Classified
- 3599—Machinery and Parts, Except Electrical, Not Elsewhere Classified

### 3581—Automatic Merchandising Machines

This industry comprises establishments primarily engaged in manufacturing automatic merchandising units; also referred to as vending machines (excluding music, amusement, or gaming machines), and coin-operated mechanisms for such machines. Coin-operated amusement and gaming machines are classified in Industry 3999 and coin-operated phonographs in Industry 3651. For a detailed list of primary products of Industry 3581, refer to table 6A, codes 3581112 to 3581251.

Comparable figures for Industry 3581 for earlier years are not available. In the 1954 and 1947 Census of Manufactures, establishments primarily engaged in manufacturing automatic merchandising machines and amusement and other coin-operated machines, although classified in Industry 3575, were included in Industry 3579, Office Machines, N.E.C.

The value of shipments of Industry 3581 in 1958 totaled \$142 million. This included shipments of primary products (automatic vending machines) valued at \$121 million, shipments of secondary products valued at \$10 million and miscellaneous receipts at \$11 million.

Industry 3581 shipments of automatic vending machines (primary products in 1958) represented 92 percent of its total product shipments (primary and secondary). Industry 3581 shipments of automatic vending machines represented 92 percent of these products valued at \$131 million shipped by all industries.

### 3582—Commercial Laundry, Dry Cleaning, and Pressing Machines

This industry comprises establishments primarily engaged in manufacturing laundry and dry-cleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment are classified in Industry 3633.

Important products of this industry include commercial washers, extractors, combination washers and extractors, drying tumblers, ironers, finishing presses, napping machines, stills and filters for dry-cleaning machines, and other laundry and dry-cleaning equipment, parts, accessor-

ies, and attachments. For a detailed list of primary products of Industry 3582, refer to table 6A, product codes 3582021 to 3582081.

The value of shipments of Industry 3582, Commercial Laundry Equipment, in 1958 totaled \$119 million. This included shipments of primary products (laundry and dry-cleaning machinery) valued at \$101 million, shipments of secondary products valued at \$6 million, and miscellaneous receipts of \$12 million.

Industry 3582 shipments of laundry and dry-cleaning machinery in 1958 represented 90 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 83 percent.

Industry 3582 shipments of laundry and dry-cleaning machinery in 1958 represented 95 percent of the laundry and dry-cleaning machinery, valued at \$107 million, shipped by all industries. The comparable 1954 coverage ratio was 93 percent.

### 3584—Vacuum Cleaners, Industrial

This industry comprises establishments primarily engaged in manufacturing vacuum cleaners for industrial use and parts and attachments for industrial vacuum cleaners. For a detailed list of primary products of Industry 3584, refer to table 6A, product codes 3584011 to 3584098.

Industry 3584 was redefined, according to the 1957 edition of the Standard Industrial Classification, to include only establishments primarily engaged in manufacturing vacuum cleaners for industrial use. Establishments primarily engaged in manufacturing domestic vacuum cleaners and parts and attachments for domestic vacuum cleaners were formerly included in this industry but are now classified in Industry 3635, Household Vacuum Cleaners.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1, footnote 10.

The value of shipments of Industry 3584, Vacuum Cleaners, Industrial in 1958 totaled \$10 million. This included shipments of primary products (industrial vacuum cleaners) valued at \$7 million, and shipments of secondary products and miscellaneous receipts of \$3 million.

Industry 3584 shipments of vacuum cleaners in 1958 represented 70 percent of its total product shipments (primary and secondary). Industry 3584 shipments of vacuum cleaners in 1958 represented 54 percent of the vacuum cleaners, valued at \$13 million, shipped by all industries.

### 3585—Refrigerators and Refrigeration Machinery, except household; and Complete Air-Conditioning Units.

This industry comprises establishments primarily engaged in manufacturing equipment and systems utilizing the basic refrigeration cycle, including mechanical and absorption refrigerators for commercial and industrial



use; refrigeration machinery, and complete air-conditioning units for domestic, commercial, and industrial use. Establishments primarily engaged in manufacturing soda fountain and beer-dispensing equipment are classified in this industry, and those primarily engaged in manufacturing household refrigerators and home and farm freezers in Industry 3632, Household Refrigerators.

Establishments primarily engaged in manufacturing farm milk coolers, except mechanically refrigerated, are classified in Industry 3522, Farm Machinery and Equipment; compressors, except refrigeration, in Industry 3561, Pumps and Compressors. Establishments primarily engaged in the construction or installation of cooling, freezing, or air-conditioning systems by building contractors or engineering concerns are not included in Industry 3585. For a detailed list of primary products of Industry 3585, refer to table 6A, product codes 3585120 to 3585798.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. As noted above, establishments primarily engaged in manufacturing soda fountain and beer-dispensing equipment (formerly classified in Industry 3997) are now included in this industry. Establishments primarily engaged in manufacturing refrigerated automatic coin-operated vending machines were formerly included in Industry 3585 but are now in Industry 3581, Automatic Vending Machines.

Total value of shipments and total cost of materials are not shown for Industry 3585 as these items include extensive duplication because the products of certain establishments in the industry are consumed as materials by other establishments in the industry. This is especially true of refrigeration and air-conditioning components which may be shipped to producers of complete refrigeration and air-conditioning equipment where they are again included in both the cost of materials and the value of shipments.

Industry 3585 comprises two major establishment types. One group of establishments specializes primarily in the manufacture of compressors, condensers, and other components for air-conditioning and commercial refrigeration. Many of these establishments also produce complete air conditioning equipment as well as subassemblies for air-conditioning and commercial refrigeration equipment. These establishments also rely on other establishments for their motors and other electrical equipment.

The other major segment of Industry 3585 covers the production of commercial refrigeration equipment such as walk-in and reach-in refrigerators, display cases for meat, dairy, and other food products, low temperature freezing and dispensing equipment, florist cabinets, etc. Although significant amounts of metal are consumed in the manufacture of these products, many of these items contain substantial amounts of wood, glass, and other non-metallic materials. Some types of commercial refrigeration equipment are shipped from the factory without compressors, condensing units or refrigeration equipment. These "remote type units" are then installed at the site with the suitable refrigeration components.

### 3586--Measuring and Dispensing Pumps

This industry comprises establishments primarily engaged in manufacturing measuring-and-dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use are classified in Industry 3561, Pumps and Compressors. For a detailed list of primary products of Industry 3586, refer to table 6A, product codes 3586011 to 3586098.

The value of shipments of Industry 3586, Dispensing Pumps, in 1958 totaled \$119 million. This included shipments of primary products (measuring and dispensing pumps) valued at \$79 million, shipments of secondary products valued at \$26 million, and miscellaneous receipts of \$14 million.

Industry 3586 shipments of measuring and dispensing pumps in 1958 represented 75 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 68 percent.

Industry 3586 shipments of measuring and dispensing pumps in 1958 represented 89 percent of the measuring and dispensing pumps, valued at \$88 million, shipped by all industries. The comparable 1954 coverage ratio was 91 percent.

### 3589--Service Industry and Household Machines, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing machines and equipment, n.e.c., for use in service industries, such as floor sanding machines, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electrical appliances are classified in Group 363.

Establishments primarily engaged in manufacturing commercial laundry equipment are classified in Industry 3582; industrial vacuum cleaners in Industry 3584; household vacuum cleaners in Industry 3635; household electrical appliances in Industry 3631; and household laundry equipment in Industry 3633. For a detailed list of primary products of Industry 3589, refer to table 6A, product codes 3589111 to 3589297.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Included in Industry 3589, according to the 1957 edition of the Standard Industrial Classification, are establishments primarily engaged in manufacturing commercial cooking and food warming equipment. Such establishments were formerly classified in Industry 3439. Establishments primarily engaged in manufacturing automotive maintenance equipment, formerly classified in industry 3589, are now included in Industry 3548. Establishments primarily engaged in manufacturing household dishwashers, dishwasher and sink combinations, household floor waxing



and polishing machines, waste food disposals and other household service machines, formerly included in Industry 3589, are now classified in Industry 3639.

The value of shipments of Industry 3589, Service Industry Machines, N.E.C. in 1958 totaled \$235 million. This included shipments of primary products (service industry machines, n.e.c.) valued at \$174 million, shipments of secondary products valued at \$29 million, and miscellaneous receipts of \$33 million.

Industry 3589 shipments of primary products in 1958 represented 86 percent of its total product shipments (primary and secondary). Industry 3589 shipments of primary products (service industry machines, n.e.c.) in 1958 represent 83 percent of these products, valued at \$209 million shipped by all industries.

#### 3599--Machinery and Parts, Except Electrical, Not Elsewhere Classified

This industry comprises establishments primarily engaged in producing machine and equipment parts, not elsewhere classified, from materials owned by them or performing machining operations on materials owned by others. These establishments usually operate on a job or order basis and are equipped with machine tools and other power-driven metal-working machinery capable of manufacturing a wide range of machine and equipment parts. Machine shops classified in this industry are characterized by their method of operation rather than their product, and the fact that they may be primarily engaged in repair work does not exclude them from this classification.

Although generally characterized by method of operation rather than type of product, establishments primarily engaged in manufacturing the following products are classified in Industry 3599: metal bellows, bushings machined from purchased castings, carburetors, catalytic converters, boiler-tube cleaners, valve cores, hydraulic cylinders, iron flasks, flexible metal hose and tubing, metallic packing (except asbestos-metallic), pistons and piston rings, and intake and exhaust valves for internal combustion engines.

Establishments primarily engaged in rebuilding automotive parts (carburetors, generators, pumps, valves, etc.) were formerly classified in this industry but are now included in Industry 3717, "Motor Vehicles and Parts." The statistics for this industry under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system but were only slightly changed as to content. Establishments that were engaged exclusively or almost exclusively in repair work were classified in Industry 3599 in 1958. For 1954, this type of establishment was not classified in manufacturing but was included in repair industries in the 1954 Census of Business. It is not believed that the inclusion of these establishments in Industry 3599 in 1958 has a significant effect on the comparability of 1958 and 1954 statistics for this industry.

The value of shipments of Industry 3599, Machine Shops, in 1958 totaled \$1,480 million. This included shipments of primary products (machine shop products) valued at \$1,003 million, shipments of secondary products valued at \$91 million, and miscellaneous receipts (mainly contract work on materials owned by others and repair work) of \$385 million.

Industry 3599 shipments of machine shop products in 1958 represented 92 percent of its total product shipments (primary and secondary). In 1954, this primary product specialization ratio was 88 percent.

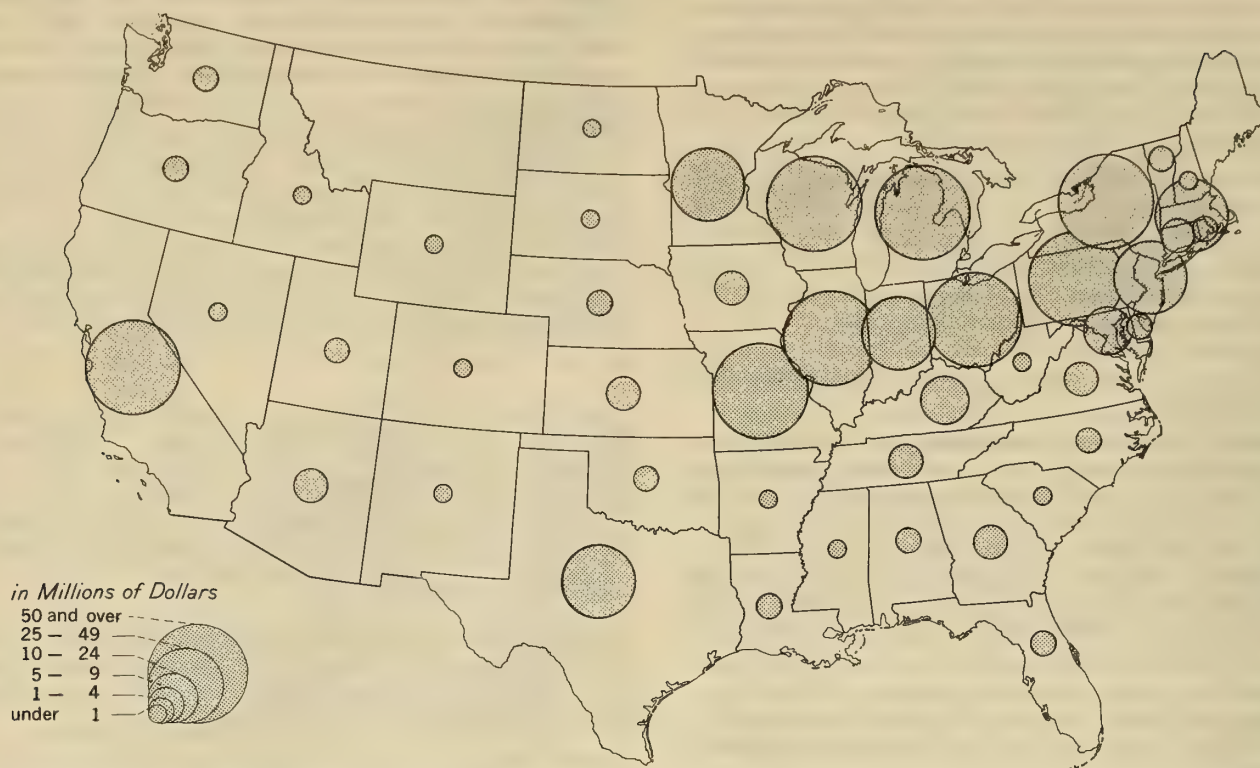
Industry 3599 shipments of machine shop products in 1958 represented 90 percent of the machine shop products, valued at \$1,118 million, shipped by all industries. This coverage ratio in 1954 was 86 percent.

Since machining is a common operation in most of the establishments producing metal products, many of the metal products establishments classified in industries other than Industry 3599 maintain machine shop departments for their own use. Data for captive machine shops appear in the metal working operations table (table 9) for individual industries.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

**SERVICE INDUSTRY MACHINES: SIC 358**

Value Added by Manufacture by State: 1958

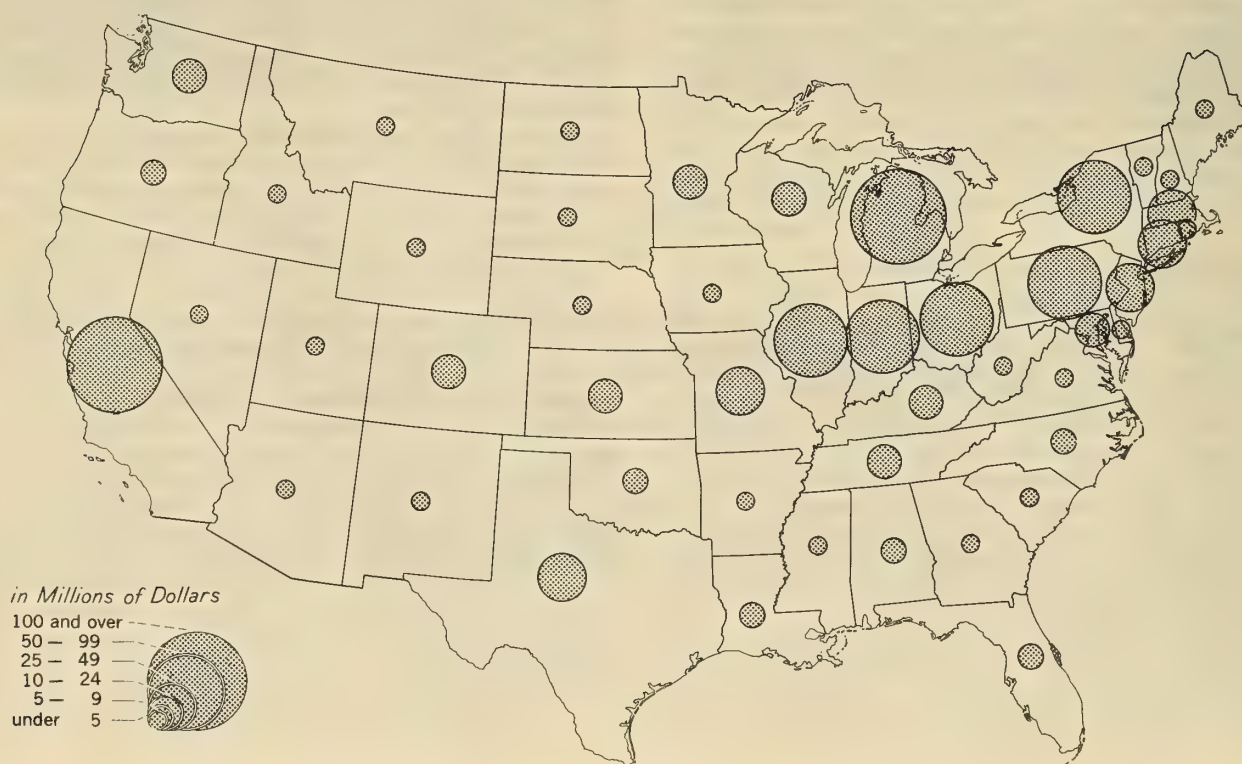


Includes Industries 3581, 3582, 3584, 3585, 3586 and 3589. See Table 2.

Bureau of the Census M-58-D358

**MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL: SIC 359**

Value Added by Manufacture by State: 1958



Includes Industries 3591 and 3599. See Table 2.

Bureau of the Census M-58-D359



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3581	Automatic vending machines:														
	1958.....	119	121	53	7,894	37,049	5,557	10,846	21,945	64,694	76,600	141,635	2,798	92	92
	1954 <sup>8</sup> .....	(NA)	76	(NA)	5,233	21,570	3,925	7,821	13,880	37,248	46,702	83,957	(NA)	(NA)	(NA)
3582 (old SIC 3582)	Commercial laundry equipment:														
	1958.....	113	119	47	6,560	33,047	4,544	9,218	20,183	65,580	54,058	119,499	1,934	93	95
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,017	33,948	5,002	10,208	21,020	71,578	48,240	117,456	2,675	84	89
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,013	33,113	5,056	10,476	20,813	66,661	47,044	107,725	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,940	31,110	4,959	10,277	19,887	62,940	42,747	99,523	(S)	(NA)	(NA)
	1954.....	101	104	46	6,543	28,630	4,659	9,509	18,243	56,644	46,189	103,747	1,062	83	93
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,291	27,807	4,667	(NA)	18,445	51,961	38,158	90,119	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,813	28,905	5,094	(NA)	20,606	54,964	38,877	94,056	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,682	26,574	4,981	(NA)	18,771	50,357	41,495	92,067	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,485	22,613	4,830	(NA)	15,227	42,730	33,776	76,581	(NA)	(NA)	(NA)
	1947.....	119	127	67	9,093	27,435	6,888	14,790	19,015	54,347	40,626	94,361	(NA)	94	94
	1939.....	(NA)	88	(NA)	(NA)	(NA)	2,783	(NA)	3,588	13,358	9,026	22,384	(NA)	(NA)	(NA)
	1937.....	(NA)	62	(NA)	(NA)	(NA)	3,012	(NA)	4,274	13,036	10,874	23,910	(NA)	(NA)	(NA)
3584 (old SIC 3584)	Vacuum cleaners, industrial: <sup>10</sup>														
	1958 <sup>11</sup> .....	18	18	6	432	2,321	289	550	1,110	4,256	6,167	10,342	( <sup>12</sup> )	70	54
3585	Refrigeration machinery:														
	1958 <sup>11</sup> .....	600	625	278	67,715	342,169	46,210	90,352	204,934	598,032	( <sup>13</sup> )	( <sup>13</sup> )	21,171	( <sup>13</sup> )	( <sup>13</sup> )
3586 (old SIC 3586)	Measuring and dispensing pumps:														
	1958.....	31	32	20	6,201	32,852	3,747	7,102	16,680	64,689	53,812	119,045	2,238	75	89
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	*5,888	*32,412	*3,871	*7,625	*17,425	*62,915	*42,800	*104,268	*1,388	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	*6,160	*32,791	*4,238	*8,652	*19,055	*66,300	*47,674	*112,972	*2,358	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	*6,880	*33,284	*4,816	*9,672	*19,874	*65,888	*49,237	*109,480	*3,651	(NA)	(NA)
	1954.....	31	*31	*19	*7,438	*34,201	*5,199	*10,454	*20,899	*59,722	*50,784	*111,628	*1,750	69	91
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,860	29,907	4,914	(NA)	18,120	48,252	39,353	87,605	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,569	48,221	7,470	(NA)	30,472	86,097	61,518	147,611	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,804	45,464	7,702	(NA)	28,145	76,673	55,334	132,003	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,476	36,471	6,721	(NA)	21,681	71,044	50,753	121,793	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,534	31,022	5,740	(NA)	17,610	57,901	35,197	93,094	(NA)	(NA)	(NA)
	1947.....	51	52	29	12,083	36,972	8,884	17,090	24,174	66,223	60,439	125,052	(NA)	76	98
	1939.....	(NA)	38	(NA)	7,395	11,953	5,054	(NA)	6,751	25,267	19,019	44,286	(NA)	(NA)	(NA)
	1937.....	(NA)	35	(NA)	(NA)	(NA)	6,652	(NA)	8,862	30,363	24,312	54,675	(NA)	(NA)	(NA)
3589 (old SIC 3589)	Service industry machines, nec:														
	1958 <sup>11</sup> .....	336	341	119	11,257	61,398	7,457	14,536	34,754	120,900	115,785	234,885	3,198	86	83
3599	Machine shops:														
	1958 (new SIC)....	10,098	10,151	1,089	115,535	574,873	91,528	179,544	420,376	959,099	519,882	1,479,680	92,813	92	90
	1958 (old SIC)....	(NA)	10,401	1,162	121,332	599,811	96,261	189,117	438,627	1,007,544	561,937	1,569,915	94,853	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	126,374	585,606	101,302	206,983	430,972	975,948	511,169	1,468,476	(S)	87	87
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	124,739	562,800	101,144	208,899	420,528	968,074	501,202	1,429,202	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	112,697	490,625	91,161	188,646	365,457	824,136	461,524	1,256,412	(S)	(NA)	(NA)
	1954.....	6,795	6,832	977	103,727	442,177	83,782	171,400	326,031	737,315	404,180	1,150,308	39,588	88	86
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	118,521	503,204	98,171	203,295	398,207	845,645	413,657	1,259,302	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	88,667	364,787	75,176	159,632	285,169	647,760	309,827	957,587	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	74,743	276,364	63,397	132,619	217,800	478,228	261,078	739,306	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	51,696	170,035	42,519	84,575	124,165	304,417	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(S)	(S)	(S)	(S)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	(NA)	3,113	513	62,400	173,729	52,313	(NA)	135,545	289,806	149,964	439,877	(NA)	92	77
	1939.....	(NA)	1,325	(NA)	(NA)	(NA)	24,333	(NA)	32,076	82,106	48,566	130,672	(NA)	(NA)	(NA)

\*Revised.      †Revised.

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of non-production workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

Footnotes continued on next page.



## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for table 1-35G

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3581	(NA)	3586	63,160
3582	54,218	3599	732,387

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3581	73,782	(NA)	3586	48,251	53,383
3582	48,179	33,847	3589	101,234	(NA)
3585	(NA)	(NA)	3599	495,375	375,318

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3581	141,421	(NA)	3586	110,089	1104,400
3582	112,074	88,065	3589	212,313	(NA)
3584	9,964	(NA)	3599	1,445,763	1,107,706
3585	(NA)	(NA)			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see table 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see table 5A and 5B.

<sup>8</sup>Represents establishments specializing in producing automatic vending machines but excludes establishments producing coin-operated mechanisms for such machines. The former establishments accounted for an estimated 80-90 percent of the total value of shipments of all establishments primarily engaged in producing automatic vending machines and coin-operated mechanisms for such machines.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>All of the establishments in this industry (New SIC) were previously classified in Industry 3584, Vacuum Cleaners (Old SIC). Prior to the introduction of the new 1957 SIC definitions of industries, this industry (Old SIC 3584) comprised 44 establishments in 1958, with 5,725 employees, and with an adjusted value added of \$88,271 thousand.

<sup>11</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification; comparable figures for earlier years are not available. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A for Industries 3585 and 3589.

<sup>12</sup>Less than \$500 thousand.

<sup>13</sup>Not shown because of duplication in cost of materials and value of shipments. See introductory text.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3585—Refrigeration machinery.....	625	278	67,715	598,032	xxx	xxx	xxx	xxx
Old Industry 3585—Refrigeration machinery.....	585	267	66,739	589,078	1643	1311	111,688	1,051,796
Old Industry 3997—Soda fountain and bar equipment.	40	11	976	8,954	40	11	976	8,954
New Industry 3589—Service industry machines, nec.....	341	119	11,257	120,900	xxx	xxx	xxx	xxx
Old Industry 3439—Heating and cooking equipment, nec.....	73	28	2,838	26,248	(2)	(2)	(2)	(2)
Old Industry 3589—Service and household machines, nec.....	243	71	6,967	78,543	320	113	14,500	179,365
Old Industry 3621—Electrical appliances.....	25	20	1,452	16,109	(2)	(2)	(2)	(2)

<sup>1</sup>These totals may represent slight revisions from the preliminary figures previously published for these industries.

<sup>2</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

<sup>3</sup>Revised.



## SERVICE INDUSTRY MACHINES AND MACHINE SHOPS

35G-7

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3581	Automatic vending machines, total....	121	53	7,894	37,049	5,557	10,846	21,945	64,694	141,635	2,798	(3)	(3)	(3)
	Northeast and													
	North Central....	88	40	6,209	30,028	4,328	8,501	17,783	47,977	109,444	2,150	(3)	(3)	(3)
	Pennsylvania....	8	3	307	1,588	190	391	709	2,666	4,185	(2)	(3)	(3)	(3)
	Ohio.....	7	2	256	1,280	204	430	937	2,448	6,225	(2)	(3)	(3)	(3)
	Illinois.....	19	9	1,230	6,006	956	1,963	4,037	8,497	17,977	(2)	(3)	(3)	(3)
	Minnesota.....	10	3	275	1,236	230	460	906	1,345	5,193	(2)	(3)	(3)	(3)
	Missouri.....	4	3	1,791	9,512	1,076	2,059	4,695	15,343	40,525	(2)	(3)	(3)	(3)
	South.....	15	6	893	3,192	712	1,322	2,204	7,643	15,167	(2)	(3)	(3)	(3)
	West.....	18	7	792	3,829	517	1,023	1,958	9,074	17,024	(2)	(3)	(3)	(3)
3582	Commercial laundry equipment, total...	119	47	6,560	33,047	4,544	9,218	20,183	65,580	119,499	1,934	6,543	54,218	9,093
	New England.....	8	4	443	1,960	287	652	1,265	3,747	6,554	(2)	486	4,162	(D)
	Middle Atlantic...	30	14	2,105	10,117	1,428	2,878	6,527	20,040	35,167	507	2,320	20,214	4,057
	New York.....	20	10	1,730	8,181	1,183	2,391	5,544	17,287	28,596	(2)	2,171	19,124	3,642
	East North Central	34	17	2,480	13,519	1,608	3,214	7,329	25,494	44,804	522	2,829	21,698	3,278
	Ohio.....	8	4	724	3,232	595	1,095	2,340	6,792	11,623	(D)	806	5,650	961
	Illinois.....	15	8	985	5,521	606	1,216	2,858	9,972	17,552	(2)	1,080	8,888	1,568
	West North Central	14	4	440	2,110	304	594	1,303	2,837	7,671	(2)	250	2,239	(D)
	South.....	19	7	808	3,998	671	1,328	2,679	10,673	20,570	510	508	4,871	417
	Texas.....	9	3	276	1,294	239	489	800	3,456	7,509	(2)	(3)	(3)	...
	West.....	14	1	284	1,343	246	552	1,080	2,789	4,733	(2)	149	1,032	228
3584	Vacuum cleaners, industrial, total..	18	6	432	2,321	289	550	1,110	4,256	10,342	(2)	(3)	(3)	(3)
3585	Refrigeration machinery, total...	625	278	67,715	342,169	46,210	90,352	204,934	598,032	(4)	21,171	(3)	(3)	(3)
	New England.....	23	14	4,220	22,497	3,266	6,637	16,073	44,409	(4)	695	(3)	(3)	(3)
	Middle Atlantic...	154	62	19,303	100,391	11,685	23,050	52,236	176,733	(4)	8,126	(3)	(3)	(3)
	New York.....	68	26	9,757	53,649	5,182	9,973	23,391	109,358	(4)	6,151	(3)	(3)	(3)
	New Jersey.....	33	14	3,799	20,397	2,189	4,416	10,611	24,598	(4)	694	(3)	(3)	(3)
	Pennsylvania....	53	22	5,747	26,345	4,314	8,661	18,234	42,777	(4)	1,281	(3)	(3)	(3)
	East North Central.....	156	81	22,831	119,472	16,053	30,507	74,358	203,563	(4)	7,240	(3)	(3)	(3)
	Ohio.....	32	20	5,757	29,061	4,173	7,921	18,856	42,004	(4)	1,490	(3)	(3)	(3)
	Indiana.....	18	10	2,377	11,170	1,760	3,422	7,515	22,812	(4)	526	(3)	(3)	(3)
	Illinois.....	49	21	1,998	10,485	1,440	2,831	6,593	15,735	(4)	653	(3)	(3)	(3)
	Michigan.....	43	21	8,375	46,322	5,864	10,853	28,271	79,540	(4)	2,005	(3)	(3)	(3)
	Wisconsin.....	14	9	4,324	22,434	2,816	5,480	13,123	43,472	(4)	2,566	(3)	(3)	(3)
	West North Central.....	64	36	8,268	39,322	5,650	11,130	24,467	66,395	(4)	1,679	(3)	(3)	(3)
	Minnesota.....	20	11	2,744	12,647	1,950	3,888	7,803	24,971	(4)	702	(3)	(3)	(3)
	Missouri.....	27	16	3,783	18,267	2,808	5,837	12,233	33,016	(4)	635	(3)	(3)	(3)
	Kansas.....	8	3	1,337	6,553	651	941	3,303	4,910	(4)	(2)	(3)	(3)	(3)
	South Atlantic....	45	19	2,473	10,599	1,793	3,523	6,393	18,667	(4)	643	(3)	(3)	(3)
	Florida.....	16	3	202	824	141	282	553	1,375	(4)	(2)	(3)	(3)	(3)
	East South Central.....	14	9	1,871	9,098	1,319	2,416	5,108	16,042	(4)	741	(3)	(3)	(3)
	West South Central.....	75	25	4,120	17,648	3,121	6,417	10,805	35,683	(4)	1,093	(3)	(3)	(3)
	Oklahoma.....	10	3	180	818	141	263	527	1,542	(4)	(2)	(3)	(3)	(3)
	Texas.....	53	21	3,844	16,544	2,900	6,017	10,039	33,675	(4)	986	(3)	(3)	(3)
	Mountain.....	9	4	1,065	4,037	781	1,703	3,016	7,313	(4)	(2)	(3)	(3)	(3)
	Pacific.....	85	28	3,564	19,105	2,542	4,969	12,478	29,227	(4)	731	(3)	(3)	(3)
	California.....	73	25	3,245	17,401	2,333	4,566	11,434	26,211	(4)	665	(3)	(3)	(3)
3586	Measuring and dispensing pumps, total.....	32	20	6,201	32,852	3,747	7,102	16,680	64,689	119,045	2,238	7,438	58,863	12,083
	Middle Atlantic...	5	3	430	2,065	254	481	1,046	3,803	7,255	(2)	(5)	(5)	...
	East North Central.....	11	8	2,711	15,903	1,607	3,082	7,342	32,327	57,297	1,659	3,397	30,716	7,546
	West North Central.....	8	5	1,451	6,587	838	1,668	3,600	13,295	19,190	(2)	1,278	9,992	1,454
	All other divisions.....	8	4	1,609	8,297	1,048	1,871	4,692	15,264	35,303	...	...	...	...

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3589	Service industry machines, nec, total.....	341	119	11,257	61,398	7,457	14,536	34,754	120,900	234,885	3,198	(3)	(3)	(3)
	New England.....	14	5	532	2,906	371	734	1,696	5,335	10,182	(2)	(3)	(3)	(3)
	Massachusetts..	8	2	353	1,932	247	502	1,141	3,461	7,021	(2)	(3)	(3)	(3)
	Middle Atlantic..	71	29	2,733	15,376	2,005	3,986	9,740	22,820	46,751	595	(3)	(3)	(3)
	New York.....	36	13	905	4,994	675	1,453	3,169	7,824	15,128	(2)	(3)	(3)	(3)
	New Jersey.....	22	11	1,136	7,015	821	1,573	4,424	10,018	21,237	(2)	(3)	(3)	(3)
	Pennsylvania...	13	5	692	3,367	509	960	2,153	4,978	10,386	(2)	(3)	(3)	(3)
	East North Central.....	126	49	4,792	25,176	3,009	5,841	13,824	60,404	118,754	1,362	(3)	(3)	(3)
	Ohio.....	22	10	994	4,855	679	1,254	3,187	12,554	25,319	(2)	(3)	(3)	(3)
	Indiana.....	13	4	255	1,252	199	392	884	2,628	4,447	(2)	(3)	(3)	(3)
	Illinois.....	62	28	2,973	15,795	1,754	3,499	8,233	35,790	71,906	788	(3)	(3)	(3)
	Michigan.....	12	4	304	2,116	189	369	901	6,895	10,642	(2)	(3)	(3)	(3)
	Wisconsin.....	17	3	266	1,158	188	327	619	2,537	6,440	(2)	(3)	(3)	(3)
	West North Central.....	30	11	1,049	5,852	610	1,132	2,627	11,081	22,209	(2)	(3)	(3)	(3)
	Minnesota.....	14	5	606	3,647	316	634	1,460	7,230	14,751	(2)	(3)	(3)	(3)
	South and West....	100	25	2,151	12,088	1,462	2,843	6,867	21,260	36,989	759	(3)	(3)	(3)
	California.....	61	18	1,394	8,268	940	1,831	4,637	14,313	24,544	(2)	(3)	(3)	(3)
3599	Machine shops, total.....	10,151	1,089	115,535	574,873	91,528	179,544	420,376	959,099	1,479,680	92,813	103,727	732,387	62,400
	New England.....	830	103	9,365	45,234	7,557	15,114	33,433	68,458	104,364	5,198	8,005	50,414	4,788
	Maine.....	33	3	332	1,328	259	569	938	2,197	3,226	(2)	(5)	(5)	(5)
	New Hampshire..	29	4	221	869	194	352	722	1,427	1,898	(2)	190	973	98
	Vermont.....	12	1	106	361	87	187	282	576	1,013	(2)	...	...	...
	Connecticut.....	301	37	4,313	21,675	3,475	6,949	15,995	33,450	51,763	1,844	3,608	24,642	1,460
	Middle Atlantic..	1,902	232	21,867	104,738	17,591	34,389	76,460	165,380	247,772	11,915	20,162	137,927	12,552
	New York.....	828	98	9,458	45,630	7,531	14,708	32,547	72,423	108,490	5,403	8,975	65,788	4,004
	New Jersey.....	505	47	5,429	25,966	4,508	8,830	19,955	39,655	60,344	3,143	4,755	31,800	2,661
	Pennsylvania...	569	87	6,980	33,142	5,552	10,851	23,958	53,302	78,938	3,369	6,432	40,339	5,887
	North Central....	3,281	374	47,346	242,170	36,313	70,917	169,897	398,903	636,723	42,287	...	...	...
	Ohio.....	757	92	9,339	48,366	7,369	14,598	34,663	71,577	115,194	4,817	10,148	76,094	4,632
	Minnesota.....	169	26	2,150	10,760	1,792	3,565	8,160	17,526	26,520	1,526	1,217	8,757	695
	Iowa.....	87	5	510	2,076	414	837	1,575	3,899	5,554	(20)	(5)	(5)	(5)
	Missouri.....	202	24	4,571	22,591	3,332	6,171	15,489	38,605	62,661	8,324	5,963	38,638	7,141
	South Dakota...	11	1	155	743	127	269	548	1,369	2,170	(2)	(5)	(5)	(5)
	Nebraska.....	37	2	203	923	177	340	782	1,558	2,417	(2)	240	1,787	(5)
	South Atlantic...	627	70	6,387	28,384	4,989	9,624	20,325	45,507	67,554	4,573	5,175	27,522	(5)
	Delaware.....	16	1	123	608	96	194	449	788	1,470	(2)	(5)	(5)	(5)
	Maryland.....	76	10	1,439	7,422	1,000	1,980	4,501	10,121	13,661	(2)	1,789	9,714	2,107
	Virginia.....	67	7	576	2,317	469	819	1,771	3,638	5,341	(2)	577	3,193	143
	West Virginia..	47	8	667	3,322	538	1,038	2,390	4,830	7,708	(2)	427	2,235	114
	North Carolina..	114	16	1,050	3,992	859	1,641	3,063	7,181	10,997	1,001	836	4,591	386
	South Carolina..	49	4	490	2,031	300	574	1,535	3,110	4,533	(2)	(5)	(5)	(5)
	Florida.....	161	12	1,266	5,200	1,075	2,161	3,858	9,984	14,944	1,484	625	3,191	108
	East South Central.....	276	25	4,082	16,544	3,491	6,859	13,049	34,960	59,152	1,991	2,840	20,900	985
	Kentucky.....	63	5	1,643	6,187	1,433	2,752	5,029	14,288	27,354	621	(5)	(5)	(5)
	Tennessee.....	85	9	1,425	5,606	1,204	2,386	4,278	12,202	18,367	636	(5)	(5)	(5)
	Alabama.....	82	7	643	2,928	546	1,085	2,335	5,161	8,039	(2)	298	2,001	199
	Mississippi.....	46	4	371	1,823	308	636	1,407	3,309	5,392	(2)	(5)	(5)	(5)
	West South Central.....	879	59	5,979	27,213	4,901	9,171	21,343	49,109	75,032	7,590	4,030	27,444	(5)
	Arkansas.....	64	2	311	1,185	260	472	965	2,429	3,636	(2)	(5)	(5)	(5)
	Louisiana.....	107	12	977	4,531	785	1,450	3,449	7,372	11,103	1,034	(5)	(5)	(5)
	Oklahoma.....	161	8	1,112	4,801	879	1,631	3,616	8,634	13,045	1,000	879	6,780	143
	Texas.....	547	37	3,579	16,696	2,977	5,618	13,313	30,674	47,248	5,127	2,475	17,074	686

See footnotes at end of page.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	Machine shops—Continued													
	Mountain.....	263	24	2,394	11,424	1,999	3,817	9,257	21,025	33,192	3,009	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Colorado.....	67	9	1,081	5,118	900	1,728	4,141	11,168	16,396	796	778	4,236	214
	New Mexico.....	43	3	309	1,513	262	502	1,242	2,332	3,535	( <sup>2</sup> )	103	771	..
	Arizona.....	55	6	515	2,554	421	840	2,019	4,105	6,243	919	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Utah.....	25	3	197	986	171	334	826	1,495	2,344	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Pacific.....	2,093	202	18,115	99,166	14,787	29,653	76,612	175,757	255,891	16,250	13,560	106,613	4,729
	Washington.....	163	13	1,334	6,579	1,034	2,015	5,286	14,423	27,296	1,573	972	5,743	542
	Oregon.....	140	9	886	4,412	736	1,332	3,517	8,321	13,138	1,164	527	3,931	631
	California.....	1,790	180	15,895	88,175	13,017	26,306	67,809	153,013	215,457	13,513	12,060	96,938	3,556

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3581, Automatic Vending Machines: Northeast and North Central—Massachusetts, 5 (100-249); Rhode Island, 2 (100-249); Connecticut, 2 (20-99); New York, 14 (500-999); New Jersey, 4 (500-999); Indiana, 4 (250-499); Michigan, 4 (20-99); Wisconsin, 3 (100-249); Iowa, 1 (20-99); Kansas, 1 (20-99); South—Maryland, 3 (100-249); West Virginia, 1 (100-249); Georgia, 2 (20-99); Florida, 2 (20-99); Tennessee, 1 (250-499); Arkansas, 1 (20-99); Texas, 5 (20-99); Mountain—Colorado, 2 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (1-19); California, 14 (500-999).

SIC 3582, Commercial Laundry Equipment: New England—Massachusetts, 4 (100-249); Rhode Island, 1 (250-499); Connecticut, 3 (20-99); Middle Atlantic—New Jersey, 4 (20-99); Pennsylvania, 6 (250-499); East North Central—Indiana, 4 (100-249); Michigan, 5 (250-499); Wisconsin, 2 (250-499); West North Central—Minnesota, 4 (250-499); Iowa, 2 (20-99); Missouri, 5 (20-99); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 1 (20-99); South—Virginia, 1 (1-19); North Carolina, 1 (20-99); Florida, 1 (1-19); Kentucky, 2 (250-499); Alabama, 1 (1-19); Arkansas, 2 (1-19); Louisiana, 1 (20-99); Oklahoma, 1 (1-19); West—Colorado, 2 (1-19); Utah, 1 (100-249); Washington, 1 (1-19); California, 10 (20-99).

SIC 3584, Vacuum Cleaners, Industrial: New England—Massachusetts, 1 (20-99); Middle Atlantic—New York 2, (20-99); Pennsylvania, 1 (1-19); East North Central—Ohio, 3 (20-99); Illinois, 5 (100-249); Michigan, 1 (20-99); West North Central—Minnesota, 1 (1-19); South—Oklahoma, 1 (1-19); West—Colorado, 1 (1-19); California, 2 (1-19).

SIC 3585, Refrigeration Machinery: New England—New Hampshire, 1 (1-19); Vermont, 1 (1-19); Massachusetts, 15 (3,182); Rhode Island, 2 (1-19); Connecticut, 4 (1,010); West North Central—Iowa, 6 (250-499); Nebraska, 3 (20-99); South Atlantic—Delaware, 1 (100-249); Maryland, 5 (250-499); District of Columbia, 1 (1-19); Virginia, 6 (500-999); West Virginia, 3 (20-99); North Carolina, 3 (250-499); South Carolina, 4 (20-99); Georgia, 6 (500-999); East South Central—Kentucky, 2 (1,000-2,499); Tennessee, 6 (250-499); Alabama, 4 (250-499); Mississippi, 2 (20-99); West South Central—Arkansas, 4 (20-99); Louisiana, 8 (20-99); Mountain—Colorado, 1 (1-19); Arizona, 7 (1,000-2,499); Utah, 1 (1-19); Pacific—Washington, 4 (100-249); Oregon, 8 (20-99);

SIC 3586, Measuring and Dispensing Pumps: New England—Massachusetts, 1 (500-999); Middle Atlantic—New York, 1 (1-19); New Jersey, 1 (20-99); Pennsylvania, 3 (250-499); East North Central—Ohio, 2 (100-249); Indiana, 3 (1,000-2,499); Illinois, 3 (500-999); Michigan, 2 (250-499); Wisconsin, 1 (20-99); West North Central—Minnesota, 3 (250-499); Iowa, 2 (20-99); Missouri, 1 (500-999); Nebraska, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (250-499); North Carolina, 1 (1-19); West South Central—Texas, 1 (100-249); Pacific—California, 4 (20-99).

SIC 3589, Service Industry Machines, NEC: New England—New Hampshire, 2 (20-99); Vermont, 1 (20-99); Connecticut, 3 (20-99); West North Central—Iowa, 2 (20-99); Missouri, 9 (100-249); North Dakota, 1 (1-19); Nebraska, 1 (20-99); Kansas, 3 (1-19); South and West—Maryland, 2 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (20-99); Georgia, 2 (1-19); Florida, 8 (20-99); Kentucky, 2 (100-249); Alabama, 1 (1-19); Arkansas, 1 (1-19); Louisiana, 2 (1-19); Oklahoma, 1 (1-19); Texas, 6 (20-99); Idaho, 1 (1-19); Wyoming, 1 (20-99); Colorado, 2 (20-99); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 2 (1-19); Nevada, 1 (1-19); Washington, 1 (1-19); Oregon, 1 (1-19).

SIC 3599, Machine Shops: New England—Massachusetts, 397 (3,903); Rhode Island, 58 (250-499); North Central—Indiana, 259 (5,072); Illinois, 628 (8,627); Michigan, 758 (13,032); Wisconsin, 255 (2,289); North Dakota, 13 (20-99); Kansas, 105 (1,341); South Atlantic—District of Columbia, 7 (100-249); Georgia, 90 (500-999); Mountain—Montana, 26 (20-99); Idaho, 24 (20-99); Wyoming, 14 (20-99); Nevada, 9 (20-99).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification.<sup>4</sup>See footnote 13 of table 1.<sup>5</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.—Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Automatic vending machines (SIC 3581)	Commercial laundry equipment (SIC 3582)	Vacuum cleaners, Industrial (SIC 3584)	Refriger- ation Machinery (SIC 3585)	Measuring and dispens- ing pumps (SIC 3586)	Service Industry Machines, nec (SIC 3589)	Machine shops (SIC 3599)
Primary product specialization ratio <sup>1</sup> .....	92	90	70	( <sup>2</sup> )	75	86	92
Coverage ratio <sup>3</sup> .....	92	95	54	( <sup>2</sup> )	89	83	90
Number of establishments, total.....	121	119	18	625	32	341	10,151
With 1-19 employees.....	68	72	12	347	12	222	9,062
With 20-99 employees.....	32	31	6	164	7	94	977
With 100 employees or more.....	21	16	...	114	13	25	112
Proprietors and working partners.....Number...	37	38	6	187	7	119	8,062
All employees:							
Number (average for the year).....	7,894	6,560	432	67,715	6,201	11,257	115,535
Payroll.....\$1,000...	37,049	33,047	2,321	342,169	32,852	61,398	574,873
Production workers:							
Number (average for the year).....	5,557	4,544	289	46,210	3,747	7,457	91,528
March.....	5,443	4,643	274	48,198	4,001	7,220	89,872
May.....	5,690	4,430	302	49,578	3,663	7,389	89,561
August.....	5,449	4,457	300	43,340	3,534	7,669	92,107
November.....	5,639	4,670	289	43,284	3,778	7,615	96,748
Man-hours.....1,000...	10,846	9,218	550	90,352	7,102	14,536	179,544
January-March.....do....	2,620	2,373	125	23,094	1,879	3,579	42,815
April-June.....do....	2,801	2,203	139	25,105	1,783	3,688	42,513
July-September.....do....	2,568	2,195	140	20,583	1,569	3,524	42,156
October-December.....do....	2,780	2,409	136	21,297	1,866	3,673	46,403
Wages.....\$1,000...	21,945	20,183	1,110	204,934	16,680	34,754	420,376
Cost of materials, etc., total.....do....	76,600	54,058	6,167	( <sup>2</sup> )	53,812	115,785	519,882
Materials, parts, containers, and supplies consumed.....do....	68,165	45,745	5,506	( <sup>2</sup> )	47,026	95,601	427,424
Cost of resales.....do....	4,627	5,879	320	74,023	5,561	14,551	24,507
Fuels consumed.....do....	352	405	23	4,626	367	592	5,961
Electricity purchased.....do....	562	430	37	6,708	419	876	10,270
Contract work.....do....	2,894	1,599	281	4,905	439	4,165	51,906
Value of shipments (including resales), total...do....	141,635	119,499	10,342	( <sup>2</sup> )	119,045	234,885	1,479,680
Value of resales.....do....	5,563	7,425	378	90,217	8,956	22,572	33,917
Value added by manufacture, adjusted.....do....	64,694	65,580	4,256	598,032	64,689	120,900	959,099
Manufacturers' inventories:							
Beginning of year, total.....do....	32,003	31,440	2,303	327,329	29,377	44,620	<sup>r</sup> 217,435
Finished products.....do....	9,773	12,631	593	153,275	9,015	10,281	63,702
Work-in-process.....do....	10,343	5,174	520	77,280	12,714	16,152	84,398
Materials, supplies, fuel, etc.....do....	11,887	13,635	1,190	96,774	7,648	18,187	69,335
End of year, total.....do....	29,833	<sup>r</sup> 30,517	2,210	<sup>r</sup> 290,691	<sup>r</sup> 28,492	<sup>r</sup> 45,057	228,676
Finished products.....do....	9,630	10,985	630	122,786	8,318	11,464	64,751
Work-in-process.....do....	10,145	6,959	564	71,130	12,867	16,769	82,650
Materials, supplies, fuel, etc.....do....	10,058	12,573	1,016	96,775	7,307	16,824	81,275
Expenditures for plant and equipment, total.....do....	3,672	1,998	( <sup>4</sup> )	22,865	2,357	3,660	102,734
New, total.....do....	2,798	1,934	( <sup>4</sup> )	21,171	2,238	3,198	92,813
New structures and additions to plant.....do....	989	655	( <sup>4</sup> )	6,371	( <sup>4</sup> )	917	38,640
New machinery and equipment.....do....	1,809	1,279	( <sup>4</sup> )	14,800	2,107	2,281	54,173
Used plant and equipment.....do....	874	( <sup>4</sup> )	( <sup>4</sup> )	1,694	( <sup>4</sup> )	( <sup>4</sup> )	9,921

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>Not shown because of duplication in cost of materials and value of products shipped (see text for detailed explanation).

<sup>3</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>4</sup>Less than \$500 thousand.



## SERVICE INDUSTRY MACHINES AND MACHINE SHOPS

35G-11

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3581	Automatic vending machines:											
	Number of establishments.....	121	r32	r18	r18	20	12	15	3	3	...	...
	All employees:											
	Number.....	7,894	117	152	329	615	846	2,445	1,147	2,243	...	...
	Payroll.....\$1,000..	37,049	424	573	1,487	2,531	3,629	11,329	4,995	12,081	...	...
	Value added, adjusted..do....	64,694	903	966	1,630	5,366	4,840	21,668	12,778	16,543	...	...
	Value of shipments.....do....	141,635	2,123	2,370	5,202	10,811	10,840	46,521	24,500	39,268	...	...
	Capital expend., new...do....	2,798	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	717	( <sup>1</sup> )	751	...	...
3582	Commercial laundry equipment:											
	Number of establishments.....	119	34	22	16	20	11	9	3	4	...	...
	All employees:											
	Number.....	6,560	74	130	232	636	764	1,403	837	2,484	...	...
	Payroll.....\$1,000..	33,047	323	654	1,020	3,408	3,921	7,352	4,294	12,075	...	...
	Value added, adjusted..do....	65,580	732	1,312	2,316	6,703	7,398	11,969	10,530	24,620	...	...
	Value of shipments.....do....	119,499	1,544	2,375	4,461	13,208	14,693	25,388	18,627	39,203	...	...
	Capital expend., new...do....	1,934	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	575	...	...
3584	Vacuum cleaners, industrial:											
	Number of establishments.....	18	7	1	4	3	3	...	...	...	...	...
	All employees:											
	Number.....	432	24	(D)	63	114	231	...	...	...	...	...
	Payroll.....\$1,000..	2,321	106	(D)	298	652	1,265	...	...	...	...	...
	Value added, adjusted..do....	4,256	239	(D)	483	969	2,565	...	...	...	...	...
	Value of shipments.....do....	10,342	492	(D)	898	2,876	6,076	...	...	...	...	...
	Capital expend., new...do....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	...	...	...	...	...
3585	Refrigeration machinery: <sup>2</sup>											
	Number of establishments.....	625	148	97	102	103	61	57	29	15	8	5
	All employees:											
	Number.....	67,715	295	667	1,441	3,324	4,245	8,749	10,104	9,928	11,286	17,676
	Payroll.....\$1,000..	342,169	1,218	2,966	6,609	15,643	20,336	42,270	48,028	44,861	63,331	96,907
	Value added, adjusted..do....	598,032	3,068	4,952	11,543	29,464	35,320	80,127	87,155	89,883	67,788	188,732
	Capital expend., new...do....	21,171	( <sup>1</sup> )	( <sup>1</sup> )	528	1,156	1,419	2,312	1,653	3,012	1,509	9,034
3586	Measuring and dispensing pumps:											
	Number of establishments.....	32	5	1	6	5	2	5	3	5	...	...
	All employees:											
	Number.....	6,201	17	(D)	82	266	(D)	700	1,247	3,889	...	...
	Payroll.....\$1,000..	32,852	67	(D)	395	1,064	(D)	3,855	6,035	21,436	...	...
	Value added, adjusted..do....	64,689	130	(D)	746	2,129	(D)	5,505	17,210	38,969	...	...
	Value of shipments.....do....	119,045	260	(D)	1,379	4,380	(D)	10,948	34,800	67,278	...	...
	Capital expend., new...do....	2,238	( <sup>1</sup> )	(D)	(D)	55	(D)	( <sup>1</sup> )	( <sup>1</sup> )	1,516	...	...
3589	Service industry machines, nec:											
	Number of establishments.....	341	115	56	51	65	29	15	8	2	...	...
	All employees:											
	Number.....	11,257	215	367	699	2,056	2,153	2,304	3,463	(D)	...	...
	Payroll.....\$1,000..	61,398	949	2,015	3,596	11,324	11,634	11,677	20,203	(D)	...	...
	Value added, adjusted..do....	120,900	2,304	4,023	7,197	19,566	22,519	30,896	34,395	(D)	...	...
	Value of shipments.....do....	234,885	5,127	8,361	12,435	39,842	45,920	55,779	67,421	(D)	...	...
	Capital expend., new...do....	3,198	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	617	( <sup>1</sup> )	850	719	(D)	...	...
3599	Machine shops:											
	Number of establishments.....	10,151	5,428	2,140	1,494	818	159	72	21	13	6	...
	All employees:											
	Number.....	115,535	10,358	14,252	20,148	23,953	10,702	10,905	7,826	8,884	8,507	...
	Payroll.....\$1,000..	574,873	39,982	64,159	98,569	125,860	57,411	57,290	40,676	44,821	46,105	...
	Value added, adjusted..do....	959,099	89,721	109,499	156,465	201,245	94,408	94,308	66,321	74,220	72,912	...
	Value of shipments.....do....	1,479,680	138,340	160,163	225,867	301,465	152,765	150,152	107,405	125,635	117,888	...
	Capital expend., new...do....	92,813	30,893	10,769	10,931	18,133	7,513	5,433	3,727	1,410	4,004	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>r</sup>Revised.

<sup>1</sup>Less than \$500 thousand.

<sup>2</sup>Value of shipments figures are not shown for this industry because of duplication in value of products shipped (see text for detailed explanation).

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.-Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. E Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3581	Automatic vending machines.....1958..	141,635	120,674	10,425	10,536	92	130,850	120,674	10,176	92
3582	Commercial laundry equipment....1958..	119,499	100,751	6,558	12,190	90	106,590	100,751	5,839	95
	1954..	103,747	71,118	14,138	18,491	83	76,637	71,118	5,519	93
3584	Vacuum cleaners, industrial.....1958..	10,342	6,914	2,908	497	70	12,732	6,914	5,818	54
3585	Refrigeration machinery.....1958..	( <sup>3</sup> )	( <sup>3</sup> )	159,941	111,111	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3586	Measuring and dispensing pumps..1958..	119,045	78,590	26,477	13,978	75	88,217	78,590	9,627	89
	1954..	111,628	73,416	34,896	13,316	68	80,846	73,416	7,430	91
3589	Service industry machines, nec..1958..	234,885	173,728	28,571	32,586	86	209,255	173,728	35,527	83
3599	Machine shops.....1958..	1,479,680	1,003,419	91,477	384,784	92	1,117,684	1,003,419	114,265	90
	1954..	1,150,308	736,302	100,383	313,623	88	852,256	736,302	115,954	86

<sup>1</sup>Revised.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>4</sup>Not shown because of duplication in value of shipments. See introductory text.

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Automatic vending machines industry	Automatic vending machines (SIC 3581)	Other industries	All industries
	Total shipments and receipts of the industry.....	141,635	xxx	xxx
	Primary products, total.....	120,674	10,176	130,850
35811	Automatic vending machines, refrigerated.....	56,533	14,910	61,443
35812	Automatic vending machines, except refrigerated.....	59,894	4,835	64,729
35810	Parts for automatic vending machines.....	4,247	431	4,678
	Secondary products, total.....	10,425	xxx	xxx
3585-	Refrigeration machinery.....	25,986	xxx	xxx
	Other secondary products.....	4,439	xxx	xxx
	Miscellaneous receipts, total.....	10,536	xxx	xxx
	Contract and commission work.....	3,233	xxx	xxx
	Sales of products bought and resold.....	5,563	xxx	xxx
	Other.....	1,740	xxx	xxx
Prod. class code	Commercial laundry equipment	Commercial laundry equipment (SIC 3582)	Other industries	All industries
	Total shipments and receipts of the industry.....	119,499	xxx	xxx
35820	Commercial laundry equipment.....	100,751	5,839	106,590
	Secondary products.....	6,558	xxx	xxx
	Miscellaneous receipts, total.....	12,190	xxx	xxx
	Contract and commission work.....	651	xxx	xxx
	Sales of products bought and resold.....	7,425	xxx	xxx
	Other.....	4,114	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Vacuum cleaners, industrial	Vacuum cleaners, industrial (SIC 3584)	Other industries	All industries
35840	Total shipments and receipts of the industry.....	10,342	xxx	xxx
	Commercial and industrial vacuum cleaners.....	6,914	<sup>3</sup> 5,818	12,732
	Secondary products.....	2,908	xxx	xxx
	Miscellaneous receipts.....	520	xxx	xxx
Prod. class code	Refrigeration machinery	Refrigeration machinery (SIC 3585)	Other industries	All industries
	Total shipments and receipts of the industry.....	( <sup>4</sup> )	xxx	xxx
	Primary products, total.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
35851	Heat transfer equipment.....	506,606	<sup>5</sup> 127,970	634,576
35853	Commercial refrigeration equipment.....	227,909	<sup>6</sup> 16,846	244,755
35854	Compressors and compressor units.....	173,981	<sup>7</sup> 29,490	203,471
35855	Condensing units.....	76,532	<sup>8</sup> 4,168	80,700
35857	Other refrigeration and air-conditioning equipment.....	160,664	<sup>9</sup> 74,448	235,112
35850	Refrigeration machinery, nsk.....	29,855	1,587	31,442
	Secondary products, total.....	<sup>1</sup> 159,941	xxx	xxx
2541-	Wood partitions, shelving, lockers, and office and store fixtures.....	6,713	xxx	xxx
25420	Metal partitions, shelving, lockers, and office and store fixtures.....	5,845	xxx	xxx
3433-	Nonelectric heating equipment.....	<sup>3</sup> 36,836	xxx	xx
34431	Heat exchangers and steam condensers.....	8,023	xxx	xxx
35511	Dairy and milk products plant machinery and equipment.....	2,709	xxx	xxx
3561-	Pumps, air and gas compressors, and pumping equipment.....	<sup>10</sup> 7,824	xxx	xxx
35641	Industrial fans and blowers.....	8,003	xxx	xxx
35642	Dust collection air purification equipment, etc.....	2,027	xxx	xxx
35811	Automatic vending machines, refrigerated.....	2,597	xxx	xxx
36322	Home and farm freezers.....	5,597	xxx	xxx
36341	Electric fans except industrial.....	10,455	xxx	xxx
36343	Other small household electric appliances.....	2,702	xxx	xxx
36426	Other electric and non-electric lighting equipment.....	2,281	xxx	xxx
37291	Other aircraft parts and auxiliary equipment.....	4,362	xxx	xxx
	Other secondary products.....	<sup>11</sup> 53,967	xxx	xxx
	Miscellaneous receipts, total.....	111,111	xxx	xxx
	Contract and commission work.....	7,682	xxx	xxx
	Sales of products bought and resold.....	90,217	xxx	xxx
	Installation work by manufacturing plant employees.....	1,551	xxx	xxx
	Repair work.....	342	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	8,060	xxx	xxx
	Scrap and salable refuse.....	2,747	xxx	xxx
	Other.....	512	xxx	xxx
Prod. class code	Measuring and dispensing pumps industry	Measuring and dispensing pumps (SIC 3586)	Other industries	All industries
35860	Total shipments and receipts of the industry.....	119,045	xxx	xxx
	Measuring and dispensing pumps.....	78,590	<sup>12</sup> 9,627	88,217
	Secondary products.....	<sup>13</sup> 26,477	xxx	xxx
	Miscellaneous receipts, total.....	13,978	xxx	xxx
	Contract and commission work.....	149	xxx	xxx
	Sales of products bought and resold.....	8,956	xxx	xxx
	Other.....	4,873	xxx	xxx
Prod. class code	Services industry machines, nec	Services industry machines, nec (SIC 3589)	Other industries	All industries
	Total shipments and receipts of the industry.....	234,885	xxx	xxx
	Primary products, total.....	173,728	35,527	209,255
35891	Commercial cooking and food warming equipment.....	55,391	<sup>14</sup> 14,472	69,863
35892	Service - industry machines and parts.....	118,337	<sup>15</sup> 21,055	139,392
	Secondary products, total.....	28,571	xxx	xxx
3551-	Food products machinery.....	2,350	xxx	xxx
35840	Commercial and industrial vacuum cleaners.....	2,477	xxx	xxx
	Other secondary products.....	<sup>16</sup> 23,744	xxx	xxx
	Miscellaneous receipts, total.....	32,586	xxx	xxx
	Contract and commission work.....	658	xxx	xxx
	Sales of products bought and resold.....	22,572	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	5,547	xxx	xxx
	Other.....	3,809	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Machine shops industry	Machine shops industry (SIC 3599)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,479,680	xxx	xxx
35990	Machine shops.....	1,003,419	<sup>17</sup> 114,265	1,117,684
	Secondary products, total.....	91,477	xxx	xxx
35441	Special dies and tools.....	7,885	xxx	xxx
37175	Parts and accessories for passenger cars, trucks and buses shipped to motor vehicle manufacturers.....	10,249	xxx	xxx
	Other secondary products.....	<sup>18</sup> 73,343	xxx	xxx
	Miscellaneous receipts, total.....	384,784	xxx	xxx
	Contract and commission work.....	224,408	xxx	xxx
	Sales of products bought and resold.....	33,917	xxx	xxx
	Installation work by manufacturing plant employees.....	3,938	xxx	xxx
	Research and development.....	2,195	xxx	xxx
	Repair work.....	79,840	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	30,236	xxx	xxx
	Scrap and salable refuse.....	5,205	xxx	xxx
	Other.....	5,045	xxx	xxx

<sup>1</sup>Revised.<sup>1</sup>Includes shipments by Industry 3585, Refrigeration Machinery, of more than \$2 million which was withheld to avoid disclosing individual company figures.<sup>2</sup>Includes the following product classes: 35853, Commercial Refrigeration Equipment, \$2,179 thousand, and 35857, Other Refrigeration and Air-Conditioning Equipment, \$3,475 thousand.<sup>3</sup>Includes \$2,477 thousand shipped by Industry 3589, Service Industry Machines, NEC.<sup>4</sup>Not shown because of duplication in value of shipments. See introductory text.<sup>5</sup>Includes \$27,723 thousand shipped by Industry 3433, Nonelectric Heating Equipment; \$4,363 thousand shipped by Industry 3564, Blowers and Fans; and \$75,316 shipped by Industry 3632, Household Refrigerators. In addition, the following industries had shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: Industry 3631, Household Cooking Equipment; Industry 3639, Household Appliances, NEC; Industry 3651, Radios and TV Receiving Sets; and Industry 3717, Motor Vehicles and Parts.<sup>6</sup>Includes \$11,280 thousand shipped by Industry 3632, Household Refrigerators; and \$2,179 thousand shipped by Industry 3581, Automatic Vending Machines.<sup>7</sup>Includes shipments by the following industries, which account for \$2 million or more but which are withheld to avoid disclosing figures of individual companies: Industry 3561, Pumps and Compressors; Industry 3564, Blowers and Fans; Industry 3632, Household Refrigerators; and Industry 3717, Motor Vehicles and Parts.<sup>8</sup>Includes \$7,222 thousand shipped by Industry 3433, Nonelectric Heating Equipment; \$5,986 thousand shipped by Industry 3494, Valves and Pipe Fittings; \$3,475 thousand shipped by Industry 3581, Automatic Vending Machines; and \$14,924 thousand shipped by Industry 3632, Household Refrigerators. In addition, the following industries had shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: Industry 3622, Industrial Controls; Industry 3717, Motor Vehicles and Parts; and Industry 3723, Aircraft Propellers and Parts.<sup>9</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 34332, Warm air furnaces; 34334 Domestic heating stoves; and 34336 Other heating equipment.<sup>10</sup>Includes Product class 35614, Air and gas compressors, which totaled \$2 million or more but which was withheld to avoid disclosing individual company figures.<sup>11</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 19410, Sighting and fire control equipment made from purchased lenses; 19990, Ordnance and accessories, nec; 33525, Extruded aluminum rod, bar, and other extruded shapes; 35595, Other special industry machinery and equipment; 36311 Electric household ranges and ovens and surface cooking unit equipment and parts; and 36350, Household vacuum cleaners.<sup>12</sup>Includes shipments by the following industries, which account for \$2 million or more but which are withheld to avoid disclosing figures of individual companies: Industry 2514, Metal Household Furniture; and 3729, Aircraft Equipment, NEC.<sup>13</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 34331, Oil Burners, Residential and Industrial; 34510, Screw machine products; 34944, Other metal valves and fittings; 35484, Automotive maintenance equipment; and 35690, General industrial machinery.<sup>14</sup>Includes \$2,246 thousand shipped by Industry 3444, Sheet Metal Work. In addition, shipments by Industry 3631, Household Cooking Equipment, total \$2 million or more but are withheld to avoid disclosing figures of individual companies.<sup>15</sup>Includes \$2,080 thousand shipped by Industry 3561, Pumps and Compressors; and \$5,435 thousand by Industry 3639, Household Appliances, NEC. In addition shipments by Industry 3569, General Industry Machinery, NEC, total \$2 million or more but are withheld to avoid disclosing figures of individual companies.<sup>16</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 35482, Power-driven hand tools; 35611, Industrial pumps.<sup>17</sup>Includes \$2,432 thousand shipped by Industry 3321, Gray Iron Foundries; \$3,285 thousand by Industry 3323, Steel Foundries; \$2,335 thousand by Industry 3461, Metal Stampings; \$5,361 thousand by Industry 3494, Valves and Pipe Fittings; \$5,089 thousand by Industry 3519, Internal Combustion Engines; \$2,683 thousand by Industry 3544, Special Dies and Tools; \$2,844 thousand by Industry 3552, Textile Machinery; \$5,997 thousand by Industry 3559, Special Industry Machinery, NEC; \$5,223 thousand by Industry 3561, Pumps and Compressors; \$5,159 thousand by Industry 3569, General Industry Machinery, NEC; \$5,154 thousand by Industry 3694, Engine Electrical Equipment; \$5,055 thousand by Industry 3717, Motor Vehicles and Parts; \$3,748 thousand by Industry 3729, Aircraft Equipment, NEC. In addition, the following industries had shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: Industry 3293, Gaskets and Insulations; 3356, Rolling and Drawing, NEC; 3361, Aluminum Castings; 3511, Steam Engines and Turbines.<sup>18</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing figures of individual companies: 35351, Conveyors and conveying equipment; 35422, Presses, including forging presses; 35663, Other mechanical power transmission equipment; 35690, General industrial machinery and equipment; 36945, Other complete electrical equipment for internal combustion engines; 36946, Components and parts for engine electrical equipment; 38214, Motor vehicle instruments, except electrical; and 38220, Automatic temperature controls.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3581---	Automatic vending machines, total.....	xxx	130,850	xxx	(NA)
	Complete units:				
	As reported in the Census of Manufactures, total <sup>1</sup> .....	xxx	<sup>1</sup> 110,548	xxx	74,258
3581112	Refrigerated.....	xxx	61,443	xxx	44,237
3581212	Nonrefrigerated.....	xxx	49,105	xxx	30,021
	As reported on Census Annual Form MA-35U, total <sup>1</sup> .....	xxx	<sup>1</sup> 108,400	xxx	xxx
	Vending machines for beverages, total.....	xxx	61,085	xxx	(NA)
	Beverage (combination hot and cold).....	818	722	(NA)	(NA)
	Coffee (refrigerated and nonrefrigerated).....	13,093	10,260	11,377	5,969
	Milk (bulk or cup).....	575	516	(NA)	(NA)
	Packaged milk (indoor).....	5,234	3,118	(NA)	(NA)
	Soft drink (bottle).....	110,561	36,011	140,951	37,018
	Soft drink (cup-post mix).....	5,445	4,528	(NA)	(NA)
	Soft drink (cup-premix).....	8,146	4,971	(NA)	(NA)
	Packaged milk (outdoor).....	121	135	(NA)	(NA)
	Other vending machines for beverages <sup>2</sup> .....	1,135	824	(NA)	(NA)
	Vending machines for confections and foods.....	xxx	14,909	xxx	(NA)
	Bulk.....	77,423	1,414	128,828	1,930
	Candy bar.....	26,271	7,077		
	Chewing gum (packaged).....	13,683	589		
	Sandwich and pastry.....	3,548	1,464	54,752	5,748
	Hot foods.....	2,842	1,096		
	Cookie, cracker, and biscuit.....	1,295	108		
	Multiple unit (refrigerated and nonrefrigerated).....			(NA)	(NA)
	Ice cream.....			2,559	1,363
	Other vending machines for confections and foods <sup>3</sup> .....	9,731	3,161	(NA)	(NA)
	All other vending machines.....	xxx	32,406	xxx	(NA)
	Cigarette.....	98,989	27,927	59,840	11,294
	Ice.....	609	1,541	(NA)	(NA)
	Postage stamp.....	11,015	505	xxx	
	All other vending machines except for beverages, confections, and food <sup>4</sup> .....	83,706	2,433	xxx	5,080
3581251	Coin-operated mechanisms for sale separately.....	800,419	15,624	(NA)	(NA)
3581000	Parts for automatic vending machines.....	xxx	4,678	xxx	(NA)
		1958		1954	
		Total production (number of units)	Total shipments including interplant transfers Quantity (number of units) Value (\$1,000)	Total production (number of units)	Total shipments including interplant transfers Quantity (number of units) Value (\$1,000)
3582---	Laundry and dry-cleaning machinery, total.....	xxx	xxx 106,590	xxx	xxx 76,637
	Commercial laundry equipment and laundry presses.....	xxx	xxx 71,291	xxx	xxx 50,007
3582021	Washers only.....	5,442	5,489 11,262	7,074	7,022 12,946
3582022	Extractors only.....	4,149	4,329 5,604	5,268	5,292 5,184
3582025	Drying tumblers.....	41,623	41,818 17,756	8,795	8,762 4,494
3582026	Ironers, flat work.....	1,404	1,448 4,723	1,380	1,403 3,356
3582027	Presses, laundry.....	12,920	12,605 16,851	11,595	11,579 8,810
3582023	Washer-extractor combinations.....	513	513 1,690	xxx	xxx
3582029	Other commercial laundry equipment and parts, accessories, and attachments.....	xxx	xxx 13,405	xxx	xxx 15,217
	Dry cleaning equipment and clothing presses.....	xxx	xxx 26,662	xxx	xxx 26,630
	Dry cleaning units:				
3582031	Synthetic type.....	1,676	1,813 8,309	1,664	1,595 7,114
3582035	Other type.....	136	138 467	282	274 1,197
3582057	Dry cleaning (tailor type) presses.....	1,100	2,194 1,317	8,847	8,941 5,167
3582052	Washer-extractors.....	930	993 3,399	xxx	xxx
3582081	Other dry cleaning equipment and parts, accessories, and attachments including washers, extractors, drying tumblers, solvent coolers, and reclaiming units, etc.....	xxx	xxx 13,170	xxx	xxx 13,152
3582000	Commercial laundry, dry-cleaning and pressing machinery, nsk.....	xxx	xxx 8,637	xxx	xxx ...
3584---	Vacuum cleaners, industrial, total.....	xxx	xxx 12,732	xxx	xxx (NA)
3584011	Portable.....	93,482	95,550 10,345	43,000	44,000 5,408
3584098	Central system, including parts and attachments for all types of commercial and industrial vacuum cleaners.....	xxx	xxx 2,387	xxx	xxx (NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3585----	Refrigeration machinery, total.....	xxx	( <sup>5</sup> )	xxx	( <sup>5</sup> )
35851--	Heat transfer equipment (evaporative condensers, unit coolers, air-conditioning units, ice-making machines, packaged liquid chillers, mechanical dehumidifiers, etc.): As reported in the Census of Manufactures.....	xxx	<sup>1</sup> 634,576	xxx	532,520
	As reported on Census Annual Form MA-35M.....	xxx	<sup>1</sup> 642,948	xxx	xxx
	Evaporative condensers, total.....	4,095	7,822	5,674	8,574
	10 tons and under.....	496	372	1,265	560
	10.1 to 15 tons.....	395	360	510	405
	15.1 to 20 tons.....	384	392	399	408
	20.1 to 30 tons.....	740	967	927	1,154
	30.1 to 50 tons.....	948	1,728	1,143	1,871
	50.1 to 100 tons.....	882	2,505	1,275	3,399
	Over 100 tons.....	250	1,498	155	777
	Air-conditioning units (not self-contained), total.....	193,986	42,324	107,697	23,859
	Suitable for location below a window, total.....	154,049	12,724	88,220	8,398
	Motor-driven-fan type.....	96,235	9,038	55,453	5,534
	Induced-air type.....	57,814	3,686	32,767	2,864
	All other, total.....	39,937	29,600	19,477	15,461
	2 tons and under.....	11,068	1,051	4,673	826
	3 tons.....	4,521	945		
	3.1 to 5 tons.....	4,809	1,861	2,370	1,009
	5.1 to 10 tons.....	3,740	2,330	3,113	1,850
	10.1 to 25 tons.....	8,286	8,660	5,157	5,023
	25.1 to 50 tons.....	4,859	7,931	3,280	4,713
	Over 50 tons.....	2,654	6,822	884	2,040
	Unit coolers (refrigeration), total.....	91,930	14,086	87,000	12,990
	Ceiling and wall mounted types, total.....	90,700	11,456	85,060	9,352
	1,000 BTU/hr. and under.....	10,549	386	3,396	119
	1,001 to 2,000 BTU/hr.....	2,067	875	27,800	1,099
	2,001 to 4,000 BTU/hr.....	14,151	849	14,985	1,420
	4,001 to 6,000 BTU/hr.....	9,000	918	12,591	1,108
	6,001 to 8,000 BTU/hr.....	8,359	1,028	7,195	1,105
	8,001 to 12,000 BTU/hr.....	14,086	2,511	8,094	1,487
	12,001 to 18,000 BTU/hr.....	5,760	1,155	6,340	1,544
	Over 18,000 BTU/hr.....	8,728	3,734	4,659	1,470
	Floor-mounted dry-type, total.....	941	1,771	1,232	1,979
	5 tons and under.....		155	155	120
	5.1 to 7.5 tons.....	278	279	325	460
	7.6 to 10 tons.....	113	164	169	239
	10.1 to 15 tons.....	180	330	265	394
	Over 15 tons.....	370	998	318	766
	Floor-mounted spray-type, total.....	289	859	708	1,659
	7.5 tons and under.....	28	37	52	58
	7.6 to 10 tons.....				
	10.1 to 15 tons.....	261	822	498	1,219
	Over 15 tons.....			158	382
	Other heat transfer equipment, total.....	xxx	57,501	xxx	68,360
	Shell-and-tube and shell-and-coil condensers.....	xxx	2,619	xxx	11,280
	Shell-and-tube liquid coolers.....			xxx	4,485
	Shell-and-coil liquid coolers.....	xxx	4,277	xxx	1,632
	Fin-coils (except forced-air units and bunker gravity type refrigeration coils), total.....	xxx	29,469	xxx	29,367
	Steam.....	xxx	7,563	xxx	4,836
	Water.....	xxx	6,126	xxx	7,934
	Direct expansion.....	xxx	15,780	xxx	16,597
	Plate-type evaporators (including bunker-gravity type refrigeration coils).....	xxx	7,143	xxx	6,958
	Surface dehumidifiers.....	xxx	1,642	xxx	4,832
	Air-cooled condensers, total.....	xxx	10,362	xxx	5,400
	Fin coils (condenser type).....	xxx	8,450	(NA)	(NA)
	Remote type (refrigerants), total.....	4,302	1,912	(NA)	(NA)
	5 tons and under.....	2,203	650	(NA)	(NA)
	5.1 to 7.5 tons.....	878	397	(NA)	(NA)
	7.6 to 10 tons.....	590	283	(NA)	(NA)
	10.1 to 15 tons.....	223	161	(NA)	(NA)
	15.1 to 20 tons.....	199	148	(NA)	(NA)
	20.1 tons and over.....	209	273	(NA)	(NA)
	Tube-in-tube liquid coolers, tube-in-tube condensers and suction line heat exchangers.....	xxx	1,989	xxx	4,406

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3585---	Refrigeration machinery—Continued				
35851--	Heat transfer equipment—Continued				
	As reported on Census Annual Form MA-35M—Continued				
	Packaged air-conditioning equipment, total.....	xxx	431,685	xxx	371,612
	Room air-conditioners, total.....	1,673,295	257,466	1,352,304	241,744
	1 2 hp. and under.....	75,245	6,884	270,214	38,924
	3 4 hp.....	210,503	25,092	684,219	115,904
	1 hp.....	916,209	138,688	351,537	72,735
	1-1 2 hp.....	263,060	45,748	46,334	14,181
	2 hp. and over.....	208,278	41,054		
	Self-contained and residential air-conditioners, total.....	6230,541	174,219	6142,909	129,868
	Air-conditioners (except room), total.....	93,978	74,585	(NA)	(NA)
	Self-contained (integral condenser type), total.....	85,638	67,621	(NA)	(NA)
	18,000 to 32,999 BTU/hr.....	31,305	9,925	(NA)	(NA)
	Horizontal.....	29,957	8,922	(NA)	(NA)
	Other.....	1,348	1,003	(NA)	(NA)
	33,000 to 53,999 BTU/hr.....	20,211	10,310	(NA)	(NA)
	Horizontal.....	13,120	6,778	(NA)	(NA)
	Other.....	7,091	3,532	(NA)	(NA)
	54,000 to 96,999 BTU/hr.....	18,755	16,641	(NA)	(NA)
	Horizontal.....	1,732	1,648	(NA)	(NA)
	Other.....	17,023	14,993		
	97,000 to 134,999 BTU/hr.....	6,906	9,346	(NA)	(NA)
	135,000 to 184,999 BTU/hr.....	3,745	7,271	(NA)	(NA)
	185,000 to 249,999 BTU/hr.....	2,325	5,188	(NA)	(NA)
	250,000 to 319,999 BTU/hr.....	1,506	4,226	(NA)	(NA)
	320,000 to 379,999 BTU/hr.....	524	2,275	(NA)	(NA)
	380,000 BTU/hr and over.....	361	2,439	(NA)	(NA)
	Remote condenser type.....	4,755	5,463	(NA)	(NA)
	Refrigeration chassis.....	3,585	1,501	18,189	9,843
	Year round air-conditioners (except heat pumps).....	11,973	12,622	15,932	16,652
	Heat pumps (except room air-conditioners), total.....	25,461	18,847	1,900	2,881
	Self-contained.....	13,372	9,001	(NA)	(NA)
	Other than self-contained.....	12,089	9,846	(NA)	(NA)
	Split systems, total.....	xxx	68,165	(NA)	(NA)
	Air-conditioning condensing units only.....	99,129	55,240	(NA)	(NA)
	Air-conditioning evaporative coils, total.....	87,301	12,925	(NA)	(NA)
	With blower.....	23,934	6,405	(NA)	(NA)
	Without blower.....	63,367	6,520	(NA)	(NA)
	Other air-conditioning and refrigeration equipment, total.....	xxx	89,530	xxx	47,125
	Absorption and adsorption systems.....	2,191	12,743	352	2,657
	Mobile vehicle refrigeration systems.....	7,525	15,911	(NA)	(NA)
	Ice making machines, total.....	31,118	17,913	(NA)	11,960
	Self-contained, total.....	30,646	16,878	23,162	10,306
	Ice-cube makers, total.....	22,624	11,873		
	Automatic, 250 lbs. and under.....	15,542	6,594		
	Automatic, over 250 lbs. but not over 500 lbs.....	6,390	4,776		
	All other.....	692	503		
	Flake or chip machines.....	8,022	5,005		
	Not self-contained.....	472	1,035	(NA)	1,654
	Packaged liquid-chillers, total.....	4,549	15,769	2,258	4,274
	10 hp. and under.....	1,681	1,688	(NA)	(NA)
	15 to 30 hp.....	1,225	3,791	(NA)	(NA)
	Over 30 hp.....	1,643	10,290	(NA)	(NA)
	Number of water chilling units.....	4,100	...	(NA)	(NA)
	Number of other chilling units.....	449	...	(NA)	(NA)
	Mechanical dehumidifiers, refrigerated type, self-contained.....	223,354	12,753	104,107	7,536
	Factory-assembled water-cooling towers, total.....	34,354	14,441	(NA)	20,698
	Mechanical-draft type, total.....	29,501	13,826	(NA)	
	5 tons and under.....	4,371	610	(NA)	
	5.1 to 20 tons.....	17,178	4,859	(NA)	
	20.1 tons and over.....	7,952	8,357	(NA)	
	Natural draft type.....	4,853	615	(NA)	

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954		
		Total production (number of units)	Total shipments including interplant transfers		Total production (number of units)	Total shipments including interplant transfers	
			Quantity (number of units)	Value (\$1,000)		Quantity (number of units)	Value (\$1,000)
35853—	Refrigeration machinery—Continued						
	Commercial refrigeration equipment, except coin-operated automatic merchandising machines, total.....	xxx	xxx	244,755	xxx	xxx	201,660
	Mechanical units (including (a) self-contained units, (b) remote units with or without condensing units and (c) cabinets; cabinets shipped to other manufacturers of commercial refrigeration equipment are shown under code 3585781):						
3585312	Walk-in coolers.....	xxx	17,565	18,104	xxx	10,829	11,252
3585316	Reach-in refrigerators (except dairy refrigerators and wall boxes, and florists' cabinets).....	xxx	27,121	15,530	xxx	23,336	11,381
3585317	Dairy refrigerators and wall boxes.....	xxx	6,930	4,273	xxx	8,140	4,987
	Display cases for meat, dairy products, fish and vegetables (except frozen food):						
3585322	Closed.....	xxx	11,863	7,211	xxx	18,611	12,282
	Open or self service:						
3585324	Single-duty.....	xxx	19,973	12,104	xxx	25,249	14,482
3585326	Double-duty.....	xxx	17,188	13,497	xxx	17,937	12,437
3585328	Multiple deck.....	xxx	12,865	11,000	xxx	(NA)	(NA)
	Low temperature freezing and dispensing equipment (except coin-operated):						
3585332	Frozen food display cases, open or self-service.....	xxx	45,596	33,091	xxx	29,216	21,600
3585334	Frozen food cabinets, upright freezers, etc., closed types..	xxx	9,668	5,734	xxx		
3585336	Ice cream counter freezers (include frozen custard machines)	xxx	5,055	7,691	xxx	4,680	5,911
3585338	Ice cream dispensing and hardening cabinets.....	xxx	43,037	15,966	xxx	85,475	27,229
	Mechanical drinking water coolers:						
3585343	As reported in the Census of Manufactures.....	xxx	xxx	122,030	xxx	131,328	22,266
	As reported on Census Annual Form MA-35M.....	xxx	139,276	120,390	xxx	xxx	xxx
	Mechanical beverage-cooling and dispensing equipment (except coin-operated):						
3585352	Bottled beverage coolers, dry and wet types.....	41,245	39,920	11,331	65,763	66,126	14,497
3585357	Bulk beverage dispensers (include malt dispensers and pre-cooler cabinets).....	36,121	39,053	7,363	40,369	42,062	6,518
	Farm and dairy milk coolers:						
3585372	Immersion type (mechanically refrigerated).....	13,294	13,662	5,210	11,622	11,841	5,154
3585375	Bulk tank storage coolers.....	15,624	15,882	25,098	(NA)	(NA)	(NA)
3585379	Other commercial mechanical refrigeration units (includes florists' cabinets, dough retarders, egg refrigeration cases, low temperature laboratory and industrial equipment, mortuary refrigerators, etc.).....	xxx	xxx	10,447	xxx	xxx	21,784
	Nonmechanical units:						
	Nonmechanical bottled beverage and water coolers.....	xxx	xxx	xxx	xxx	23,304	1,162
	Other nonmechanical units.....	xxx	xxx	xxx	xxx	16,070	1,525
3585300	Unitary commercial refrigeration equipment, nsk.....	xxx	xxx	19,075	xxx	xxx	7,193
		1958			1954		
		Total shipments including interplant transfers		Number of compressor bodies manufactured	Total shipments including interplant transfers		Number of compressor bodies manufactured
		Quantity (number of units)	Value (\$1,000)		Quantity (number of units)	Value (\$1,000)	
35854—	Compressors and compressor units, total.....	xxx	203,471	xxx	xxx	162,991	xxx
3585414	Compressors and motor compressors for household refrigerators...	1,380,050	29,972	(NA)	727,659	16,047	2,090,610
3585420	Compressors and compressor units (except for household refrigerators) and centrifugal refrigeration systems:						
	As reported in the Census of Manufactures.....	xxx	1173,499	xxx	2,207,560	146,598	2,711,174
	As reported on Census Annual Form MA-35M.....	2,960,247	1171,952	4,032,179	xxx	xxx	xxx
	All refrigerants (except ammonia), total.....	2,957,112	134,243	4,030,318	2,204,914	121,104	2,709,114
	20 hp. and under, hermetic motor compressors and/or power units, total <sup>7</sup> .....	2,463,825	99,648	3,577,746	2,199,637	110,257	2,700,221
	3/4 hp. and under.....	2,420,384	90,733	1,819,607	2,037,872	88,088	2,440,276
	1 hp.....			909,412			
	1-1/2 hp.....			285,346	61,521	4,039	72,828
	2 hp.....			310,749	75,636	9,645	120,395
	3 hp.....			115,130			
	5 hp.....			79,629	15,303	3,399	44,238
	7-1/2 hp.....			39,972	5,448	1,591	16,230
	10 hp.....			11,803			
	15 hp.....			4,370	3,857	3,495	6,254
	20 hp.....			1,728			

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954		
		Total shipments including interplant transfers		Number of compressor bodies manu- factured	Total shipments including interplant transfers		Number of compressor bodies manu- factured
		Quantity (number of units)	Value (\$1,000)		Quantity (number of units)	Value (\$1,000)	
3585--- 35854--- 3585420	Refrigeration machinery—Continued Compressors and compressor units, total—Continued Compressors and compressor units (except for household refrigerators)—Continued As reported on Census Annual Form MA-35M—Continued All refrigerants (except ammonia)—Continued 20 hp. and under, open-type compressors (with or without motors), total <sup>3</sup> ..... 3/4 hp. and under..... 1 hp..... 1-1/2 hp..... 2 hp..... 3 hp..... 5 hp..... 7-1/2 hp..... 10 hp..... 15 hp..... 20 hp.....  Over 20 hp., (open and hermetic types), total..... Over 20 hp. but not over 25 hp..... 30 hp..... 40 hp..... 50 hp..... 60 hp..... 75 hp..... 100 hp..... Over 100 hp.....  Automotive air-conditioning (open type, with or without motor) <sup>10</sup> ..... Ammonia, refrigerants, total..... 7-1/2 hp. and under..... 10 hp..... 15 hp..... 20 hp..... 25 hp..... 30 hp..... 40 hp..... 50 hp..... 60 hp..... 75 hp..... 100 hp..... 101-200 hp..... 201 hp. and over.....	44,151 20,339 1,847 1,199 5,081 6,628 3,803 2,158 1,039 1,211 846  5,601 1,094 1,324 1,107 791 594 373 215 103  443,535 2,045 288 78 296 192 173 226 140 238 146 81 161 26	5,203 627 110 100 315 629 906 544 485 776 711  8,525 1,162 1,422 1,509 1,417 1,141 880 600 394  20,867 5,666 270 103 423 350 394 547 398 754 519 389 1,052 467	(8) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8)  9,037 2,174 1,684 2,016 1,151 1,017 576 419  443,535 1,861  <			

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Refrigeration machinery--Continued				
35855--	Condensing units, total.....	xxx	80,700	894,880	85,274
3585514	Condensing units for household refrigerators (air-cooled hermetic-type).....	278,065	16,286	324,460	21,541
3585520	Condensing units (except for household refrigerators): As reported in the Census of Manufactures.....	xxx	164,414	570,420	63,733
	As reported on Census Annual Form MA-35M.....	530,419	162,104	xxx	xxx
	All refrigerants (except ammonia), total.....	530,389	62,054	570,297	63,467
	Air-cooled, total.....	485,061	43,639	516,162	42,123
	Open-type, total.....	26,560	4,671	51,460	7,445
	1/4 hp. and under.....			7,099	464
	1/3 hp.....	15,674	1,681	10,513	829
	1/2 hp.....			10,090	1,075
	3/4 hp.....			6,904	980
	1 hp.....			6,276	1,117
	1-1/2 hp.....	3,165	524	3,758	924
	2 hp.....	2,252	584	3,744	1,026
	3 hp.....	2,144	623		
	5 hp.....	3,325	1,259	3,076	1,030
	Over 5 hp.....				
	Hermetic-type, total.....	458,501	38,968	464,702	34,678
	1/5 hp. and under.....	74,706	3,163		
	1/4 hp.....	127,808	7,209	263,326	15,568
	1/3 hp.....	103,999	6,546	97,275	6,571
	1/2 hp.....	65,139	5,142	52,843	4,508
	3/4 hp.....	24,428	2,286	20,688	2,261
	1 hp.....	19,332	2,577	14,915	2,092
	1-1/2 hp.....	14,236	2,615		
	2 hp.....	12,554	3,217		
	3 hp.....	13,134	4,398	15,655	3,678
	5 hp. and over.....	3,165	1,815		
	Water-cooled, total.....	45,328	18,415	54,135	21,344
	Open-type, total.....	8,731	4,176	19,569	8,322
	1/3 hp. and under.....			243	29
	1/2 hp.....	995	160	1,509	200
	3/4 hp.....			2,041	332
	1 hp.....			2,092	408
	1-1/2 hp.....			2,411	598
	2 hp.....	871	152	2,527	703
	3 hp.....	649	181	2,803	990
	5 hp.....	1,161	349	2,497	1,252
	7-1/2 hp.....	1,640	559	817	570
	10 hp.....	1,494	438	987	938
	15 hp.....	661	479	964	1,209
	20 hp.....	469	610	678	1,093
	Hermetic-type, total.....	295	518		
	1/2 hp. and under.....	34,559	8,941	32,620	8,513
	3/4 hp.....	5,011	513	3,404	372
	1 hp.....	3,155	366	4,133	550
	1-1/2 hp.....	6,475	1,081	4,623	709
	2 hp.....	4,070	893	3,746	852
	3 hp.....	5,522	1,431	5,675	1,577
	5 hp.....	5,974	2,082	5,880	1,938
	7-1/2 hp. and over.....	2,958	1,452	4,125	1,915
	Open and hermetic-type, total.....	1,394	1,123	1,034	600
	Over 20 but not over 25 hp.....	2,038	5,298	91,946	94,509
	30 hp.....	437	810	433	750
	40 hp.....	447	940	480	801
	50 hp.....	439	1,121	371	831
	60 hp.....	365	1,064	287	754
	75 hp.....	193	611		
	Over 75 hp.....	90	379	375	1,373
	Ammonia refrigerants, total.....	67	373		
	5 hp. and under.....	30	50	123	266
	7-1/2 - 20 hp.....	30	50	83	131
	20 hp. and over.....			40	135
35857--	Other refrigeration and air-conditioning equipment, total.....	xxx	235,112	xxx	(NA)
3585711	Soda fountain equipment (cooler box, fountainette, and similar equipment).....	xxx	15,708	xxx	18,723
3585751	Beer dispensing equipment.....	xxx	6,877	xxx	3,293
3585781	Cabinets (for mechanical units) shipped to other manufacturers of commercial refrigeration equipment.....	2,329	1,547	xxx	642
3585791	Other refrigeration machinery and air conditioning equipment (including absorption and adsorption systems).....	xxx	31,144	xxx	(NA)
3585793	Automobile air-conditioners, complete.....	427,109	39,914	(NA)	(NA)
3585794	Evaporative air coolers.....	711,667	39,004	(NA)	(NA)
3585798	Other components and accessories for air-conditioning and refrigeration equipment.....	xxx	85,576	xxx	161,036
3585700	Other refrigeration and air-conditioning equipment, nsk.....	xxx	15,342	xxx	14,352
3585000	Refrigeration and air-conditioning equipment, nsk.....	xxx	31,442	xxx	(NA)

See footnotes at end of table.



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Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

		1958			1954		
Product code	Product	Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
		(number of units)	Quantity (number of units)	Value (\$1,000)	(number of units)	Quantity (number of units)	Value (\$1,000)
3586---	Measuring and dispensing pumps, total.....	xxx	xxx	88,217	xxx	xxx	80,846
	Gasoline dispensing pumps (filling station type):						
	Computing:	.					
3586011	Single units.....	84,668	83,118	39,484	} 111,051	110,444	40,679
3586012	Dual units <sup>12</sup> .....	6,283	6,074	5,317			
3586013	Noncomputing <sup>13</sup> .....	9,762	11,716	2,911	7,570	7,518	2,121
3586021	Lubricating-oil outfits (including pump and tank).....	20,015	23,437	6,387	22,696	24,118	1,917
3586031	Lubricating-oil pumps (including barrel pumps).....	206,378	208,954	5,361	528,975	518,237	8,112
3586041	Grease pumps.....	xxx	xxx	5,518	xxx	xxx	5,692
3586051	Grease guns.....	xxx	xxx	6,338	xxx	xxx	4,548
3586015	Other measuring and dispensing pumps; including airport fueling units and parts, and attachments for measuring and dispensing pumps, sold separately.....	xxx	xxx	16,901	xxx	xxx	17,777
3586098		xxx	xxx				
		1958			1954		
		Production for all purposes (number of units)	Total shipments including interplant transfers		Production for all purposes (number of units)	Total shipments including interplant transfers	
			Quantity (number of units)	Value (\$1,000)		Quantity (number of units)	Value (\$1,000)
3589---	Service industry machines, nec, total.....	xxx	xxx	209,255	xxx	xxx	(NA)
35891--	Commercial cooking and food warming equipment.....	xxx	xxx	69,863	xxx	xxx	55,038
	Nonelectric:						
3589111	Commercial cooking stoves, ranges, ovens, and broilers.....	xxx	55,555	15,012	xxx	(NA)	13,551
3589129	Other commercial cooking equipment, (including griddles, toasters, deep-fat fryers, coffee urns, pressure cookers-steam, commercial, etc.).....	xxx	xxx	9,962	xxx	xxx	9,574
3589131	Commercial food-warming equipment, (including steam tables)..	xxx	xxx	8,975	xxx	xxx	7,912
	Electric:						
3589161	Commercial ranges, ovens and broilers.....	xxx	40,915	9,709	xxx	xxx	4,860
3589171	Other commercial cooking equipment (including griddles, toasters, deep-fat fryers, coffee makers, coffee urns),....	xxx	xxx	12,532	xxx	xxx	6,816
3589181	Commercial food-warming equipment (including hot food server units and steam tables).....	xxx	xxx	9,871	xxx	xxx	7,640
3589100	Commercial cooking and food warming equipment, nec.....	xxx	xxx	3,802	xxx	xxx	4,625
35892--	Service industry machines, and parts.....	xxx	xxx	139,392	xxx	xxx	(NA)
	Water softeners.....	191,514	193,338	29,961	306,046	305,131	26,814
3589222	Industrial.....	4,907	4,906	10,283	(NA)	(NA)	(NA)
	Farm and household and commercial:						
3589224	Manual.....	78,256	78,171	6,086	(NA)	(NA)	(NA)
3589226	Semi-automatic.....	38,319	38,245	4,957	(NA)	(NA)	(NA)
3589228	Automatic.....	70,032	72,016	8,635	(NA)	(NA)	(NA)
3589235	Floor waxing and polishing machines, commercial and industrial.	100,261	100,372	10,439	51,038	51,494	6,876
3589242	Floor sanding and floor scrubbing machines.....	xxx	xxx	5,198	25,345	25,350	4,889
3589261	Carpet sweepers.....	753,409	814,582	5,119	790,269	798,489	4,153
3589271	Dishwashing machines, commercial type.....	14,107	14,298	19,036	15,624	15,282	15,641
3589291	Other industrial and commercial service machines.....	xxx	xxx	46,212	xxx	xxx	(NA)
3589297	Parts and accessories for commercial electric cooking equipment	xxx	xxx	3,306	xxx	xxx	(NA)
3589200	Service industry machines and parts, nec.....	xxx	xxx	20,121	xxx	xxx	(NA)

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3599---	Machine shop products, total.....	xxx	1,117,684	xxx	778,856
	Carburetors, new, all types:				
3599011	Shipped to motor vehicle manufacturers.....	3,370	30,866	xxx	
3599015	Shipped to all other customers.....	3,463	17,360	xxx	
3599010	Carburetors, not specified by type of customers.....	xxx	741	xxx	
	Pistons (machined) and piston rings, all types:				
	Pistons, all types:				
	Aluminum:				
3599021	Shipped to motor vehicle manufacturers.....	10,097	16,300	xxx	
3599025	Shipped to all other customers.....	7,052	14,091	xxx	
	Other:				
3599031	Shipped to motor vehicle manufacturers.....	xxx	487	xxx	
3599035	Shipped to all other customers.....	xxx	1,706	xxx	(14)
	Piston rings, all types:				
	Oil type:				
3599041	Shipped to motor vehicle manufacturers.....	90,641	12,153	xxx	
3599045	Shipped to all other customers.....	44,671	13,773	xxx	
	Compression type:				
3599051	Shipped to motor vehicle manufacturers.....	197,575	22,201	xxx	
3599055	Shipped to all other customers.....	108,322	30,608	xxx	
3599020	Pistons and piston rings, nsk.....	xxx	1,580	xxx	
	All other machine shop products:				
3599061	Flexible metal hose and tubing.....	xxx	39,579	xxx	31,671
3599071	Metallic and semimetallic packing.....	xxx	12,519	xxx	9,219
3599081	Metal bellows.....	xxx	9,070	xxx	6,329
	Valves (intake and exhaust only) for internal combustion engines:				
3599091	Shipped to motor vehicle manufacturers.....	xxx	21,982	xxx	
3599095	Shipped to all other customers.....	xxx	19,272	xxx	
3599098	Other machine shop products.....	xxx	586,550	xxx	731,637
3599000	Machine shop products, nsk.....	xxx	266,846	xxx	

NA Not available.

<sup>1</sup>For these products, data for 1958 were also collected in the Census annual commodity survey program. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified products or classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each product or class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting generally to less than 2 percent at the industry level and not more than 5 percent at the class of product level. For some products or classes of products absolute differences between the Census figures and survey figures amounting to less than \$2 million were considered acceptable. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual surveys will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

<sup>2</sup>Includes combination hot beverage vending machines (combination with and without coffee), canned beverages, etc.

<sup>3</sup>Includes vending machines for apples, bread, eggs, packaged dry beverage ingredients, popcorn, etc.

<sup>4</sup>Includes coin changers, and vending machines for aspirin, cigars, combs, cosmetics, pencils, newspaper, etc. Does not include coin-operated phonographs, photographic machines, or amusement machines.

<sup>5</sup>The total value of shipments of refrigeration machinery is omitted because of extensive duplication resulting from the use of products of certain establishments as materials by others within the same industry.

<sup>6</sup>Excludes evaporative coils.

<sup>7</sup>Excludes automotive air-conditioning compressors.

<sup>8</sup>Figures are included with those for "20 hp. and under hermetic-type compressors and compressor units" of corresponding sizes.

<sup>9</sup>Represents open-type only but figures are presumed to be comparable with open and hermetic-type classifications for 1958.

<sup>10</sup>No breakdown by horsepower is available for these units.

<sup>11</sup>Figures are included with "Hermetic-type centrifugal refrigeration systems" of corresponding sizes.

<sup>12</sup>For 1958, twin pumps were counted as one unit. For 1954, twin pumps were counted as two units.

<sup>13</sup>For 1958 and 1954, twin pumps were counted as two units.

<sup>14</sup>Included with other machine shop products.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<u>Automatic vending machines, refrigerated (35811):</u>			<u>Commercial refrigeration equipment (35853):</u>	1958 <sup>1</sup>		<u>Condensing units, all refrigerants (35855)--</u>		
United States, total:			United States, total.....	244,755		Continued		
1958.....	61,443		Northeast.....	68,411		United States, total--		
1954.....	44,237		Massachusetts.....	8,051		Continued		
1947.....	28,670		New York.....	15,162		1951.....	90,274	
	1958 <sup>1</sup>	1954	New Jersey.....	23,559		1950.....	106,189	
Northeast.....	7,198	4,938	Pennsylvania.....	20,595		1947.....	111,697	
North Central.....	29,755	29,634	East North Central.....	62,653			1958 <sup>1</sup>	1954
Illinois.....	2,961	9,231	Ohio.....	11,388		Northeast.....	18,597	8,916
South and West.....	24,490	7,386	Indiana.....	7,386		North Central.....	58,267	48,338
	Value of shipments		Illinois.....	7,736		Michigan.....	31,337	20,539
			Michigan.....	21,257		South.....	2,685	2,213
			Wisconsin.....	14,886		West.....	1,151	2,213 <sup>(3)</sup>
<u>Automatic vending machines, except refrigerated (35812):</u>	1958 <sup>1</sup>		West North Central.....	62,847			Value of shipments	
United States, total.....	64,729		Minnesota.....	19,743				
New England.....	3,510		Missouri.....	38,497		<u>Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment (35857):</u>	1958 <sup>1</sup>	
Middle Atlantic.....	15,292		South Atlantic.....	13,296		United States, total.....	235,112	
New York.....	4,752		Maryland.....	3,226		Northeast.....	77,051	
East North Central.....	18,051		Florida.....	1,020		Massachusetts.....	4,456	
Ohio.....	1,257		East South Central.....	4,239		New York.....	40,551	
Illinois.....	14,058		West South Central.....	11,436		New Jersey.....	9,116	
Wisconsin.....	1,068		Texas.....	8,619		Pennsylvania.....	8,254	
West North Central.....	24,335		West.....	21,873		East North Central.....	72,614	
Minnesota.....	2,024		California.....	17,228		Ohio.....	27,456	
Missouri.....	20,824			Value of shipments		Indiana.....	14,672	
South and West.....	3,541		<u>Compressors and compressor units, all refrigerants (35854):</u>			Illinois.....	8,394	
California.....	2,704		United States, total:			Michigan.....	15,927	
			1958.....	203,471		Wisconsin.....	6,165	
<u>Heat transfer equipment (35851):</u>			1957.....	207,512		West North Central.....	22,411	
United States, total.....	634,576		1956.....	230,849		Missouri.....	6,197	
Northeast.....	237,538		1955.....	182,812		South Atlantic.....	5,973	
New York.....	132,455		1954.....	162,991		Maryland.....	1,254	
New Jersey.....	22,822		1953.....	128,175		Virginia.....	3,125	
East North Central.....	197,127		1952.....	76,706		North Carolina.....	1,091	
Ohio.....	53,231		1951.....	83,520		South Central.....	25,467	
Indiana.....	60,658		1950.....	80,886		Texas.....	22,741	
Michigan.....	31,841		1947.....	63,371		Mountain.....	21,615	
West North Central.....	69,768			1958 <sup>1</sup>	1954	Pacific.....	9,981	
Minnesota.....	33,065		Northeast.....	37,323	33,609	California.....	9,793	
South Atlantic.....	22,889		New Jersey.....	5,451	(2)		Value of shipments	
Maryland.....	2,372		East North Central.....	161,159	120,065			
East South Central.....	45,083		Ohio.....	41,215	17,718	<u>Measuring and dispensing pumps (35860):</u>		
West South Central.....	42,707		All other regions.....	4,989	(NA)	United States, total:		
Oklahoma.....	1,112			Value of shipments		1958.....	88,217	
Texas.....	41,595		<u>Condensing units, all refrigerants (35855):</u>			1957.....	104,814	
West.....	19,464		United States, total:			1956.....	109,480	
California.....	19,106		1958.....	80,700		1955.....	90,321	
			1957.....	78,131		1954.....	80,846	
			1956.....	91,187		1947.....	95,488	
			1955.....	80,844			1958 <sup>1</sup>	1954
			1954.....	85,274		Northeast.....	15,994	(2)
			1953.....	101,173		East North Central.....	36,841	42,223
			1952.....	82,389		Ohio.....	9,169	5,511

See footnotes at end of table.

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
Measuring and dispensing pumps (35860)--Continued	1958 <sup>1</sup>	1954	Commercial cooking and food warming equipment (35891)--Continued	1958 <sup>1</sup>	Service-industry machines and parts (35892)--Continued	1958 <sup>1</sup>
West North Central.....	14,339	12,897	East North Central.....	28,911	Middle Atlantic.....	22,585
South Atlantic.....	19,091	10,960	Ohio.....	4,794	New York.....	6,537
West.....	1,952	( <sup>a</sup> )	Illinois.....	22,176	New Jersey.....	6,869
California.....	1,534	( <sup>a</sup> )	West North Central.....	4,771	Pennsylvania.....	9,179
	Value of shipments		Missouri.....	4,673	East North Central.....	78,148
Commercial cooking and food warming equipment (35891):	1958 <sup>1</sup>		South.....	7,224	Ohio.....	17,915
United States, total.....	69,863		West.....	6,657	Indiana.....	4,112
New England.....	2,734		California.....	5,953	Illinois.....	37,562
Middle Atlantic.....	17,881		Service-industry machines and parts (35892)		Michigan.....	10,863
New York.....	8,301		United States, total.....	139,392	Wisconsin.....	7,696
New Jersey.....	7,522		New England.....	1,608	West North Central.....	15,640
Pennsylvania.....	2,058		Massachusetts.....	1,283	Minnesota.....	11,636
					Iowa.....	1,515
					South Atlantic.....	1,032
					South Central.....	1,732
					Mountain.....	1,521
					Pacific.....	16,901
					California.....	16,901

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35811, Massachusetts, Connecticut, Pennsylvania, Ohio, Indiana, Wisconsin, Minnesota, Missouri, Maryland, West Virginia, Tennessee, Arkansas, and California; 35812, Rhode Island, Connecticut, New Jersey, Pennsylvania, Indiana, and Iowa; 35851, Massachusetts, Connecticut, Pennsylvania, Illinois, Wisconsin, Iowa, Missouri, Kansas, Maryland, Virginia, North Carolina, Georgia, Florida, Kentucky, Tennessee, and Alabama; 35853, Iowa, Kansas, Delaware, Georgia, Tennessee, Mississippi, Oklahoma, Washington, and Oregon; 35854, Massachusetts, Connecticut, New York, Pennsylvania, Indiana, Illinois, Michigan, Wisconsin, Kentucky, and California; 35855, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indiana, Michigan, Wisconsin, Missouri, Texas, and California; 35857, Connecticut, Minnesota, Iowa, Kansas, Maryland, Virginia, North Carolina, Oklahoma, Arizona, and California; 35891, Vermont, Indiana, Maryland, and Kentucky; 35892, Nebraska and Kentucky.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3581—AUTOMATIC VENDING MACHINES		INDUSTRY 3582—COMMERCIAL LAUNDRY EQUIPMENT			
	Materials, parts, containers, and supplies, total.....		xxx	68,165	xxx	45,745	xxx	32,456
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons.	387	120	4,347	963	3,341	734
331212	Sheet and strip.....	do.	29,517	6,202	29,688	5,012	8,250	1,398
331213	Plates.....	do.			2,416	606	4,001	598
331215	Structural shapes.....	do.			1,200	678	1,683	290
331217	Wire and wire products.....	do.			100	118	300	114
331219	All other carbon steel mill shapes and forms.....	do.	726	221	769	237	1,564	407
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do.			76	34	1,206	275
331225	All other alloy steel mill shapes and forms.....	do.			309	455	228	63
331231	Stainless steel mill shapes and forms.....	do.	1,217	914	3,674	4,858	2,010	2,311
	Copper and copper-base alloy:							
335111	Bare wire for electrical conduction only.....	1,000 lbs. metal content...	xxx	xxx				
363111	Insulated wire and cable.....	do.	xxx	xxx	59	66		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)	1,000 lbs..	xxx	xxx	392	332	922	489
	Aluminum and aluminum-base alloy mill shapes and forms:							
335257	Sheet, plate and foil.....	do.						
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structured shapes, rod, bar, powder, etc.)	do.	994	749	294	263	1,116	635

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3581—AUTOMATIC VENDING MACHINES		INDUSTRY 3582—COMMERCIAL LAUNDRY EQUIPMENT			
332011	Castings (rough and semifinished, received from foundry):							
332311	Iron (gray and malleable).....	Short tons.	xxx	xxx	8,301	2,989	10,276	2,962
336121	Steel.....	.....do.....	(NA)	623	253	213	216	161
336131	Copper and copper-base alloy.....	1,000 lbs..	xxx	xxx	411	334	918	571
336111	Aluminum and aluminum-base alloy.....	.....do.....	757	528	493	512	605	415
361412	Fractional horsepower electric motors (under 1 horsepower):							
361419	Timing motors, synchronous and subsynchronous.....	Number.....	54,040	254	11,345	143	38,000	1,001
	All other fractional horsepower electric motors.....	.....do.....	220,157	2,011	59,426	1,898		
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	.....do.....	xxx	xxx	12,984	1,823	10,000	1,471
970099	All other materials and components, parts, containers, and supplies consumed.....	.....do.....	xxx	51,388	xxx	14,741	xxx	16,241
973000	Materials, containers, supplies, nsk.....	.....do.....	xxx	5,165	xxx	9,470	xxx	2,320
			1958					
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)		
			INDUSTRY 3584—VACUUM CLEANERS, INDUSTRIAL		INDUSTRY 3585—REFRIGERATION MACHINERY			
	Materials, parts, containers, and supplies, total.....	.....do.....	xxx	5,506	xxx		(1)	
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons.	88	38	20,144	3,959		
331212	Sheet and strip.....	.....do.....						
331213	Plates.....	.....do.....						
331215	Structural shapes.....	.....do.....						
331217	Wire and wire products.....	.....do.....						
331219	All other carbon steel mill shapes and forms.....	.....do.....			18,033	5,200		
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	.....do.....	xxx	xxx	1,175	438		
331225	All other alloy steel mill shapes and forms.....	.....do.....	(D)	(D)	5,338	2,264		
331231	Stainless steel mill shapes and forms.....	.....do.....	xxx	xxx	10,876	14,822		
335111	Copper and copper-base alloy:							
363111	Bare wire for electrical conduction only.....	1,000 lbs..	xxx	xxx	3,253	1,794		
	Insulated wire and cable.....	1,000 lbs. metal content...	(D)	(D)	946	1,136		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)	1,000 lbs..	(D)	(D)	58,058	43,885		
335257	Aluminum and aluminum-base alloy mill shapes and forms:							
335259	Sheet, plate and foil.....	.....do.....	119	135	41,326	20,688		
	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)	.....do.....			15,057	7,371		
332011	Castings (rough and semifinished, received from foundry):							
332311	Iron (gray and malleable).....	Short tons.	(D)	(D)	298,881	25,158		
336121	Steel.....	.....do.....	xxx	xxx	5,754	1,871		
336131	Copper and copper-base alloy.....	1,000 lbs..	(D)	(D)	2,446	1,793		
336111	Aluminum and aluminum-base alloy.....	.....do.....	436	852	7,750	3,433		
339111	Iron and steel forgings.....	Short tons.	xxx	xxx	3,238	1,382		
361412	Fractional horsepower electric motors (under 1 horsepower):							
361419	Timing motors, synchronous and subsynchronous.....	Number.....	51,912	621	713,523	6,952		
	All other fractional horsepower electric motors.....	Number.....			5,744,837	49,852		
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	.....do.....	6,934	255	1,865,455	52,474		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....do.....	xxx	3,468	xxx	388,132		
973000	Materials, containers, supplies, nsk.....	.....do.....	xxx	137	xxx	33,692		
			1958		1954			
			INDUSTRY 3586—MEASURING AND DISPENSING PUMPS					
	Materials, parts, containers, and supplies, total.....	.....do.....	xxx	47,026	xxx	50,978		
	Mill shapes and forms (except castings):							
363111	Copper and copper-base alloy:							
	Insulated wire and cable.....	1,000 lbs. metal content...	27	32	2,601	1,170		
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)	1,000 lbs..	846	507				

See footnotes at end of table.

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3586—MEASURING AND DISPENSING PUMPS—Continued			
	Mill shapes and forms (except castings)—Continued					
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	....do....	104	80	566	293
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, power, etc.).	....do....	200	169		
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	Short tons	10,164	2,827	12,057	3,796
336121	Copper and copper-base alloy.....	1,000 lbs.	558	368	1,724	847
336111	Aluminum and aluminum-base alloy.....	....do....	1,294	1,038	1,378	1,057
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	Number....	99,369	3,103	130,000	3,987
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	37,904	xxx	39,828
973000	Materials, containers, supplies, nsk.....	.....	xxx	998	xxx	xxx
			1958			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3589—SERVICE INDUSTRY MACHINES, NEC		INDUSTRY 3599—MACHINE SHOPS	
	Materials, parts, containers, and supplies, total.....	.....	xxx	95,601	xxx	427,424
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons	2,111	492	77,276	14,522
331212	Sheet and strip.....	....do....	19,816	3,924	36,873	8,168
331213	Plates.....	....do....	2,416	498	32,623	5,447
331215	Structural shapes.....	....do....	872	170	19,742	2,922
331217	Wire and wire products.....	....do....	252	191	4,813	1,936
331219	All other carbon steel mill shapes and forms.....	....do....	1,346	390	11,921	3,634
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	....do....	211	157	22,187	6,384
331225	All other alloy steel mill shapes and forms.....	....do....	149	152	4,448	2,235
331231	Stainless steel mill shapes and forms.....	....do....	5,364	7,104	11,125	13,149
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 lbs.	109	74	472	297
363111	Insulated wire and cable.....	1,000 lbs. metal content..	111	183	732	540
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)	1,000 lbs.	620	426	27,796	13,366
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	....do....	1,003	695	6,719	5,583
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)	....do....	251	115	8,183	5,518
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	Short tons	6,253	2,591	34,036	17,939
332311	Steel.....	....do....	612	360	13,977	9,078
336121	Copper and copper-base alloy.....	1,000 lbs.	1,218	849	45,254	2,844
336111	Aluminum and aluminum-base alloy.....	....do....	2,030	1,616	22,885	12,887
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	Number....	57,001	694	xxx	xxx
361419	All other fractional horsepower electric motors.....	....do....	123,203	2,400	xxx	xxx
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	....do....	34,229	2,045	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	53,985	xxx	172,372
973000	Materials, containers, supplies, nsk.....	.....	xxx	16,490	xxx	128,603

D Withheld to avoid disclosing figures of individual companies. r Revised.

NA Not available.

<sup>1</sup>Omitted because of duplication in cost of materials and value of products shipped (see Introductory text).<sup>2</sup>In addition, 5,477 short tons of iron castings were produced and consumed in the same establishment.<sup>3</sup>In addition, 7,628 short tons of iron castings were produced and consumed in the same establishment.<sup>4</sup>In addition, 1,045 thousand pounds of copper and copper-base alloy castings were produced and consumed in the same establishment.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3581	AUTOMATIC VENDING MACHINES (entire industry).....	121	7,894	37,049	5,557	10,846	21,945	64,694	76,600	141,635	2,798
	Establishments with:										
	90% or more specialization.....	91	5,100	23,528	3,662	7,200	14,489	42,395	47,790	90,647	1,936
35811	Automatic vending machines, refrigerated (primary product class of estab.).....	33	3,521	16,817	2,350	4,567	8,995	29,785	40,394	70,436	839
	Establishments with:										
	90% or more specialization....	21	1,375	6,471	956	1,989	3,663	13,240	15,110	28,303	( <sup>1</sup> )
35812	Automatic vending machines, except refrigerated (primary product class of estab.).....	71	3,938	18,502	2,875	5,661	11,774	32,495	34,200	66,637	1,580
	Establishments with:										
	90% or more specialization....	59	3,330	15,192	2,421	4,656	9,696	27,145	28,929	56,556	1,220
3585	REFRIGERATION MACHINERY (entire industry).....	625	67,715	342,169	46,210	90,352	204,934	598,032			21,171
	Establishments with:										
	90% or more specialization.....	541	37,941	183,496	27,085	52,641	114,593	319,479	( <sup>2</sup> )	( <sup>2</sup> )	9,910
	75-89% specialization.....	31	15,205	79,976	8,882	17,627	40,343	139,419			7,284
35851	Heat transfer equipment (primary product class of estab.).....	79	35,460	183,572	22,810	44,823	101,937	325,456	423,726	782,915	13,557
	Establishments with:										
	90% or more specialization....	35	6,979	33,209	5,062	10,100	20,224	69,308	109,789	196,285	1,844
	75-89% specialization.....	12	3,625	18,015	2,119	3,906	9,621	24,361	51,777	82,598	938
35853	Commercial refrigeration equipment (primary product class of estab.)..	255	15,092	71,775	10,649	21,143	46,122	121,025	142,509	265,511	2,752
	Establishments with:										
	90% or more specialization....	198	7,580	35,982	5,503	10,548	22,849	62,814	76,629	138,983	1,762
	75-89% specialization.....	28	2,863	12,442	1,806	3,642	7,333	21,154	25,107	46,249	( <sup>1</sup> )
35855	Condensing units, all refrigerants (primary product class of estab.)..	9	3,247	20,903	1,893	3,757	9,244	21,575	45,901	68,255	691
	Establishments with:										
	90% or more specialization....	4	327	1,645	299	608	1,353	2,356	2,806	5,186	( <sup>1</sup> )
35857	Other refrigeration and air conditioning equipment (primary product class of estab.).....	143	6,956	32,994	5,069	9,974	20,927	65,982	75,428	140,125	1,828
	Establishments with:										
	90% or more specialization....	118	4,917	22,986	3,584	7,289	14,705	46,694	55,486	101,178	1,360
	75-89% specialization.....	6	183	844	121	234	451	1,427	2,071	3,481	(D)
3586	MEASURING AND DISPENSING PUMPS (entire industry).....	32	6,201	32,852	3,747	7,102	16,680	64,689	53,812	119,045	2,238
	Establishments with:										
	90% or more specialization.....	26	2,750	14,538	1,785	3,394	7,582	31,077	31,236	62,257	1,844
3589	SERVICE INDUSTRY MACHINES, NEC (entire industry).....	341	11,257	61,398	7,457	14,536	34,754	120,900	115,785	234,885	3,198
	Establishments with:										
	90% or more specialization.....	280	5,771	30,388	4,122	7,944	18,593	66,786	63,328	129,610	1,859
	75-89% specialization.....	20	1,595	9,467	867	1,725	4,157	19,378	13,207	31,216	577
35891	Commercial cooking and food warming equipment (primary product class of estab.).....	98	4,290	24,067	3,281	6,482	15,871	42,357	36,027	77,671	924
	Establishments with:										
	90% or more specialization....	79	2,360	12,829	1,796	3,563	8,504	24,813	21,452	45,902	679
	75-89% specialization.....	8	380	1,712	273	482	1,019	4,141	2,287	6,152	( <sup>1</sup> )
35892	Service industry machines, and parts (primary product class of estab.).....	239	6,958	37,294	4,169	8,041	18,854	78,439	79,739	157,131	2,269
	Establishments with:										
	90% or more specialization....	198	3,054	16,038	2,031	3,849	8,981	38,331	39,946	78,445	1,116
	75-89% specialization.....	14	1,367	8,416	713	1,441	3,536	17,394	11,745	27,789	547

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup> Less than \$500 thousand. <sup>2</sup> Not shown because of duplication in value of shipments (see Introductory text).

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3581—AUTOMATIC VENDING MACHINES								
Forging.....	1	...	1	...	(D)	...	(D)	...
Electroplating.....	6	2	2	2	64	(D)	(D)	(D)
Galvanizing and other hot dip coating...	2	1	1	...	11	(D)	(D)	...
Heat treating and annealing.....	3	3	...	...	(D)	(D)	...	...
Automatic screw machine department.....	4	2	2	...	28	(D)	(D)	...
Machine shop.....	27	9	11	7	385	18	106	261
Tool and die shop.....	19	5	11	3	192	10	98	84
Plate or structural fabrication.....	4	1	1	2	61	(D)	(D)	(D)
Stamping, blanking, and forming.....	29	6	7	16	889	12	79	798
Painting, lacquering, and enameling.....	26	8	13	15	263	17	99	147
INDUSTRY 3582—COMMERCIAL LAUNDRY, EQUIPMENT								
Forging.....	1	1	...	...	(D)	(D)	...	...
Electroplating.....	3	2	1	...	9	(D)	(D)	...
Heat treating and annealing.....	7	6	...	1	41	(D)	...	(D)
Automatic screw machine department.....	6	5	...	1	44	(D)	...	(D)
Machine shop.....	40	12	16	12	905	24	156	725
Tool and die shop.....	17	9	7	1	95	19	(D)	(D)
Foundry pattern shop.....	4	3	1	...	14	(D)	(D)	...
Plate or structural fabrication.....	17	9	3	5	296	24	29	243
Stamping, blanking, and forming.....	28	15	8	5	258	32	65	161
Painting, lacquering, and enameling.....	38	28	9	1	162	42	(D)	(D)
INDUSTRY 3584—VACUUM CLEANERS, INDUSTRIAL								
Automatic screw machine department.....	1	...	1	...	(D)	...	(D)	...
Machine shop.....	5	4	1	...	28	(D)	(D)	...
Tool and die shop.....	1	1	...	...	(D)	(D)	...	...
Stamping, blanking, and forming.....	3	2	1	...	9	(D)	(D)	...
Painting, lacquering, and enameling.....	4	3	1	...	18	(D)	(D)	...
INDUSTRY 3585—REFRIGERATION MACHINERY								
Ferrous foundry.....	5	1	...	4	187	(D)	...	(D)
Nonferrous foundry (except die casting)...	2	1	...	1	24	(D)	...	(D)
Electroplating.....	16	11	4	1	69	23	(D)	(D)
Galvanizing and other hot dip coating...	9	8	1	...	23	(D)	(D)	...
Heat treating and annealing.....	15	9	6	...	65	18	47	...
Automatic screw machine department.....	16	7	6	3	231	11	47	173
Machine shop.....	110	37	39	34	10,761	93	358	10,310
Tool and die shop.....	84	44	29	11	1,121	117	272	733
Foundry pattern shop.....	10	9	1	...	28	(D)	(D)	...
Plate or structural fabrication.....	46	12	18	16	1,543	30	173	1,340
Stamping, blanking, and forming.....	154	30	63	61	4,517	74	616	3,827
Painting, lacquering, and enameling.....	172	110	39	23	1,767	243	386	1,138
INDUSTRY 3586—MEASURING AND DISPENSING PUMPS								
Automatic screw machine department.....	13	6	5	2	159	11	(D)	(D)
Machine shop.....	20	5	4	11	804	12	46	746
Tool and die shop.....	11	1	7	3	176	(D)	(D)	98
Stamping, blanking, and forming.....	14	4	6	4	251	12	58	181
Painting, lacquering, and enameling.....	17	8	8	1	109	17	(D)	(D)
INDUSTRY 3589—SERVICE INDUSTRY MACHINES, NEC								
Ferrous foundry.....	3	1	...	2	53	(D)	...	(D)
Nonferrous foundry (except die casting)...	2	2	...	...	(D)	(D)	...	...
Nonferrous die casting.....	1	1	...	...	(D)	(D)	...	...
Forging.....	1	1	...	...	(D)	(D)	...	...
Electroplating.....	5	4	1	...	22	(D)	(D)	...
Heat treating and annealing.....	7	7	...	...	10	10	...	...
Automatic screw machine department.....	5	5	...	...	8	8	...	...
Machine shop.....	86	36	34	16	1,272	85	341	846
Tool and die shop.....	27	20	7	...	90	41	49	...
Foundry pattern shop.....	4	4	...	...	11	11	...	...
Plate or structural fabrication.....	29	11	15	3	232	27	128	77
Stamping, blanking, and forming.....	58	24	23	11	624	58	196	370
Painting, lacquering, and enameling.....	68	62	6	...	150	93	57	...

See footnotes at end of table.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3599—MACHINE SHOPS							
Ferrous foundry.....	36	11	12	13	789	25	127	637
Nonferrous foundry (except die casting).....	36	17	13	6	496	33	130	333
Nonferrous die casting.....	13	6	3	4	395	16	36	343
Forging.....	20	13	5	2	158	26	(D)	(D)
Electroplating.....	48	30	12	6	327	44	106	177
Heat treating and annealing.....	145	121	19	5	3,213	196	180	2,837
Automatic screw machine department.....	231	162	57	12	1,308	286	469	553
Machine shop.....	2,640	599	1,388	493	64,218	1,747	13,132	49,339
Tool and die shop.....	346	206	108	32	4,866	433	936	3,497
Foundry pattern shop.....	45	36	8	1	146	60	(D)	(D)
Plate or structural fabrication.....	315	184	111	20	2,129	430	915	784
Stamping, blanking, and forming.....	277	170	86	21	4,184	314	697	3,173
Painting, lacquering, and enameling.....	211	201	9	1	376	278	(D)	(D)

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3581	3582	3584	3585	3586	3589	3599
Total number of establishments in the industry.....	155	119	18	625	32	341	10,151
Number of establishments completing the metalworking operations inquiry, including establishments that reported none.....	129	108	15	558	28	236	10,150
Percent of total industry employment of establishments completing the metalworking operations inquiry....	85-90	over 95	75-80	90-95	over 95	75-80	over 95

D Withheld to avoid disclosing figures for individual companies.





## Major Group 36—Electrical Machinery

This major group covers establishments primarily engaged in manufacturing machinery, apparatus and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy.

A number of products which are sometimes considered "as belonging" in electrical equipment are classified in other major groups in the revised edition (1957) of the Standard Industrial Classification System in use as of 1958. For example, machinery or equipment powered by built-in or detachable electric motors, such as machine tools and other metalworking equipment, commercial laundry and dry cleaning equipment, industrial vacuum cleaners, and office and store machines are classified in Major Group 35, Machinery, Except Electrical. Establishments primarily engaged in producing glass insulators, glass blanks for bulbs, and porcelain electrical supplies are classified in Major Group 32; those producing electric furnaces and ovens, turbo-generators and gas welding apparatus in Major Group 35; and those making automatic temperature controls in Major Group 38.

Industries included in Major Group 36 are typically defined in terms of products and may include both electrical and electronic equipment. Industry Groups 365, 366, and 367 include the bulk of electronic equipment in this major group, i.e., radios, television sets, electron tubes, etc., but they also encompass some communications equipment other than electronic. Both electrical and electronic testing equipment are included in Industry 3611, Electric Measuring Instruments. Most of the other industries in Major Group 36 include products generally defined as electrical rather than electronic. Electronic components are frequently produced and consumed at the same location by establishments classified in this major group. Thus, there are (1) Plants solely engaged in producing electronic components, (2) Plants producing electronic components and assembling them into finished products, and (3) Plants which assemble components produced elsewhere either in other plants of the same company or by other companies. Other types of components and equipment in Major Group 36 such as motors, generators, and motor-generator sets are not uncommonly produced for incorporation into other products made in the same plant.

Products included in Major Group 36 consist of equipment and apparatus for industrial or commercial use as well as goods for household consumption. For example, Group 364 includes such consumer durable goods as electric lamps, lighting fixtures, and wiring devices and supplies, as well as similar products for commercial or industrial use. Group 363 consists of household electric appliances such as ranges, ovens, water heaters, fans and small electric appliances, household refrigerators and freezers, household laundry equipment, sewing machines, and vacuum cleaners.

Data on selected materials consumed (principally the metal items) by each of the 4-digit industries are shown in the respective table 7's. The number of establishments engaged in some of the more important metalworking operations and the number of employees working in each operation are shown in table 9(A) for the 4-digit industries. The materials and metalworking operations shown in tables 7 and 9(A) do not represent, of course, a complete list or, for many industries in this group, even the most important ones. There are a number of significant activities such as assembly, subassembly, welding, etc., which are not covered in all instances. Although the production processes in this area adhere to a general pattern of metalworking and fabricating operations (e.g., machine shop, tool and die room, etc.), there are substantial variations in the numbers and types of processes performed by an individual establishments as well as from industry to industry. Within many of these industries establishments typically purchase mill shapes and castings and carry out the entire fabricating of the metal until it emerges as a finished product. In other industries, however, such as radio and television receiving sets, establishments may be primarily engaged in assembling component parts products by other companies or other plants of the same company. Also, not all industries consume significant amounts of metals or engage in metalworking operations, e.g., Carbon and Graphite Products (Industry 3624), Electric Lamps (Industry 3641), Phonograph Records (Industry 3652), and Batteries (Industries 3691 and 3692).

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted <sup>1</sup> (\$1,000)	Capital expendi- tures, new (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	1,198,926	6,168,026	808,621	1,589,497	3,509,746	10,395,369	449,925
Administrative and auxiliary establishments.....	(NA)	(NA)	76,642	562,041	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments <sup>2</sup> .....	8,091	3,799	1,122,284	5,605,985	808,621	1,589,497	3,509,746	10,395,369	449,925
Operating manufacturing establishments (based on old SIC).....	6,937	3,348	1,000,288	4,988,108	712,710	1,401,948	3,069,274	9,109,236	416,968
Operating manufacturing establishments:									
1957 <sup>3</sup> .....	(NA)	(NA)	1,084,367	5,133,431	794,504	1,565,205	3,292,470	9,620,386	524,090
1956 <sup>3</sup> .....	(NA)	(NA)	1,080,346	4,903,040	816,796	1,617,919	3,261,155	9,111,975	475,362
1955 <sup>3</sup> .....	(NA)	(NA)	1,000,960	4,313,717	758,694	1,521,004	2,895,957	8,002,066	334,597
1954: <sup>4</sup>									
All manufacturing establishments, total.....	(NA)	(NA)	1,004,532	4,229,300	722,443	1,422,339	2,645,588	7,299,607	340,677
Administrative and auxiliary establishments.....	(NA)	(NA)	45,406	278,306	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	5,758	2,837	959,126	3,950,994	722,443	1,422,339	2,645,588	7,299,607	340,677
Operating manufacturing establishments:									
1953 <sup>3</sup> .....	(NA)	(NA)	1,095,852	4,424,751	851,443	1,702,904	3,077,463	7,876,186	406,425
1952 <sup>3</sup> .....	(NA)	(NA)	957,251	3,750,218	740,504	1,521,034	2,629,427	6,873,204	(NA)
1951 <sup>3</sup> .....	4,294	(NA)	876,551	3,193,256	692,059	1,396,428	2,277,716	5,753,226	296,252
1950 <sup>3</sup> .....	3,873	(NA)	765,613	2,532,870	609,819	1,221,179	1,799,660	4,815,364	195,458
1949 <sup>3</sup> .....	(NA)	(NA)	663,147	2,144,778	506,129	1,025,573	1,459,988	3,901,654	187,284
1947 <sup>4</sup> .....	3,970	(NA)	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235	224,606
1939 <sup>5</sup> .....	1,979	(NA)	(NA)	(NA)	247,930	(NA)	323,388	941,469	(NA)
1937 <sup>6</sup> .....	1,597	(NA)	374,290	559,482	306,003	(NA)	407,961	1,102,133	(NA)
1935.....	1,589	(NA)	275,343	347,533	224,437	(NA)	240,952	685,716	(NA)
1933 <sup>7</sup> .....	1,365	(NA)	202,129	211,777	163,736	(NA)	145,404	404,199	(NA)
1931.....	1,596	(NA)	(NA)	(NA)	216,596	(NA)	239,634	762,626	(NA)
1929.....	1,861	(NA)	421,283	649,498	343,138	(NA)	474,203	1,389,424	(NA)
1927.....	1,837	(NA)	322,397	509,350	255,782	(NA)	356,415	1,049,374	(NA)
1925 <sup>8</sup> .....	1,807	(NA)	308,592	462,975	251,188	(NA)	337,979	939,520	(NA)
1923.....	1,782	(NA)	331,505	473,751	255,383	(NA)	330,425	806,436	(NA)
1921.....	1,487	(NA)	239,944	338,863	179,142	(NA)	216,016	547,071	(NA)
1919.....	1,570	(NA)	305,222	379,020	241,095	(NA)	272,152	671,678	(NA)
1914.....	1,048	(NA)	155,699	117,868	127,459	(NA)	80,148	200,510	(NA)
1909.....	1,027	(NA)	111,087	73,360	92,455	(NA)	52,222	121,369	(NA)
1904 <sup>9</sup> .....	798	(NA)	75,019	45,283	63,863	(NA)	33,525	80,048	(NA)
1899 <sup>9</sup> .....	592	(NA)	48,491	25,999	43,280	(NA)	21,188	44,395	(NA)

NA Not available.

<sup>1</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>2</sup>Figures for 1958, for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, data excludes establishments primarily engaged in the manufacture of household ranges and ovens; household refrigerators and home and farm freezers; household laundry equipment; household vacuum cleaners; sewing machines; water heaters, except electric; and other household appliances. Establishments primarily engaged in the manufacture of hearing aids; high frequency, induction, and dielectric heating apparatus; commercial food warming equipment; industrial electric heating units and devices; and insulated wire and cable made from purchased wire, are included in data prior to 1958.

<sup>3</sup>The figures for 1949-1953 and 1955-1957, represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>4</sup>Data for 1947, 1954, and later years, exclude establishments primarily engaged in the manufacture of automatic temperature controls, whereas data for 1949-1953 include these establishments.

<sup>5</sup>Data for 1939 and earlier years exclude establishments primarily engaged in the manufacture of electric (dry) shavers.

<sup>6</sup>Figures for 1937 and earlier years include data for establishments primarily engaged in the manufacture of vacuum cleaners, turbo-generators and water-wheel generator sets, dictating machines and electric industrial furnaces and ovens. Value added for 1939 and basis comparable with earlier years was \$1,000 million.

<sup>7</sup>The figures for 1933 and earlier years include data for establishments primarily engaged in the manufacture of certain types of beauty and barber-shop equipment classified for later years in the "Miscellaneous manufactures" industries.

<sup>8</sup>The figures for 1925 and earlier years include data for establishments primarily engaged in the manufacture of certain types of mechanical refrigerators, classified for later years in the Machinery (except electrical) industries.

<sup>9</sup>The figures for 1899 and 1904 include data for establishments primarily engaged in the manufacture of signs and advertising novelties, classified for later years in the "Miscellaneous manufactures" industries.



## ELECTRICAL MACHINERY

36-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Region and State	1958								1954		
	Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Capital expendi- ture, new	All employees, number	Value added by manufac- ture, adjusted
	Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
MAJOR GROUP 35 AND 36											
MACHINERY, EXCEPT ELEC- TRICAL AND ELECTRICAL MACHINERY, TOTAL <sup>1</sup> . . . .	37 958	11 159	2 470 537	129 096 646	17 577 753	34 423 359	8 156 325	22 786 559	1 126 345	2 441 736	19 251 632
NEW ENGLAND . . . . .	3 450	1 084	268 615	1 307 883	193 988	382 032	835 028	2 232 736	102 392	288 442	2 119 242
MAINE . . . . .	75	17	3 724	17 402	2 906	6 308	12 325	19 059	(D)	4 300	25 000
NEW HAMPSHIRE . . . . .	126	45	14 873	64 014	11 429	23 437	43 339	115 273	5 610	12 940	89 800
VERMONT . . . . .	62	29	7 531	35 620	5 389	10 170	22 395	50 170	(D)	8 859	70 360
MASSACHUSETTS . . . . .	1 680	557	139 618	686 103	99 004	196 916	428 257	1 166 243	48 322	144 988	1 048 137
RHODE ISLAND . . . . .	281	80	11 714	51 569	8 676	16 434	32 539	86 059	3 354	13 933	90 840
CONNECTICUT . . . . .	1 226	356	91 155	453 175	66 584	128 767	296 173	795 939	39 994	103 402	794 899
MIDDLE ATLANTIC . . . . .	8 707	2 719	651 387	3 402 298	449 145	880 478	2 076 745	5 781 183	251 727	661 422	5 256 961
NEW YORK . . . . .	4 142	1 203	277 787	1 454 447	187 498	368 350	858 702	2 439 199	107 850	270 371	2 122 781
NEW JERSEY . . . . .	2 305	678	165 213	871 814	114 501	225 805	533 383	1 394 944	63 172	168 633	1 267 648
PENNSYLVANIA . . . . .	2 260	838	208 387	1 076 037	147 146	286 313	684 660	1 947 040	80 705	222 414	1 866 433
EAST NORTH CENTRAL . . . . .	12 224	3 963	987 552	5 330 539	712 517	1 383 530	3 457 084	9 423 895	457 807	1 058 235	8 604 888
OHIO . . . . .	3 067	1 046	265 583	1 448 580	194 622	375 671	956 288	2 553 750	137 294	299 722	2 388 227
INDIANA . . . . .	1 129	371	121 928	622 598	91 649	178 610	421 444	1 120 504	58 433	131 177	1 039 507
ILLINOIS . . . . .	3 436	1 245	326 702	1 684 292	230 765	446 072	1 055 142	3 178 587	146 944	327 115	2 586 634
MICHIGAN . . . . .	3 356	887	151 601	916 558	111 432	219 007	613 880	1 446 644	67 595	178 831	1 594 992
WISCONSIN . . . . .	1 236	414	121 730	658 602	84 049	164 170	410 330	1 124 410	47 541	121 390	986 813
WEST NORTH CENTRAL . . . . .	2 390	748	144 560	712 746	103 787	204 600	455 960	1 305 277	86 533	130 384	941 670
MINNESOTA . . . . .	662	224	38 675	198 372	26 092	52 263	117 524	344 684	16 890	30 030	225 679
IOWA . . . . .	454	159	46 039	235 399	34 586	68 419	34 586	465 160	(D)	40 930	289 900
MISSOURI . . . . .	747	228	42 492	202 279	30 540	59 100	129 079	357 483	19 095	45 041	319 448
NORTH DAKOTA . . . . .	33	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	234	1 623
SOUTH DAKOTA . . . . .	22	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	289	1 742
NEBRASKA . . . . .	157	42	6 601	28 183	4 991	9 933	18 711	50 384	(D)	5 420	38 000
KANSAS . . . . .	315	84	9 869	44 883	6 862	13 355	28 563	79 114	4 594	8 538	65 731
SOUTH ATLANTIC . . . . .	1 922	566	96 088	453 451	67 885	133 177	271 714	875 984	41 336	71 409	474 908
DELAWARE . . . . .	48	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)
MARYLAND . . . . .	287	93	27 235	151 309	17 123	33 795	81 115	257 387	10 529	24 300	176 400
DISTRICT OF COLUMBIA . . . . .	22	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	397	2 392
VIRGINIA . . . . .	178	54	9 737	43 834	6 248	12 386	22 849	98 468	2 969	(1)	(1)
WEST VIRGINIA . . . . .	128	39	7 267	36 196	5 937	11 331	27 188	82 076	2 646	7 660	63 467
NORTH CAROLINA . . . . .	372	127	22 967	95 546	16 813	59 219	32 985	211 659	10 173	17 231	103 824
SOUTH CAROLINA . . . . .	121	41	5 485	20 074	4 409	8 935	14 206	36 255	2 486	(1)	(1)
GEORGIA . . . . .	290	107	11 780	52 892	8 797	17 121	33 428	108 284	3 671	9 331	59 624
FLORIDA . . . . .	476	87	9 084	39 321	6 797	13 285	25 473	65 283	7 483	6 720	23 150
EAST SOUTH CENTRAL . . . . .	791	250	61 779	287 733	47 927	93 113	193 961	668 216	33 755	42 524	306 865
KENTUCKY . . . . .	223	75	29 812	148 648	23 198	44 546	101 576	370 897	18 049	20 893	156 803
TENNESSEE . . . . .	278	92	18 721	84 361	14 307	28 075	54 799	188 936	10 280	11 905	85 325
ALABAMA . . . . .	185	49	8 153	35 093	6 333	12 148	24 191	62 682	3 323	6 400	40 700
MISSISSIPPI . . . . .	105	34	5 093	19 631	4 089	8 344	13 395	45 701	2 103	3 390	24 700
WEST SOUTH CENTRAL . . . . .	2 025	443	66 369	324 719	47 644	95 958	203 657	636 466	38 655	50 664	442 675
ARKANSAS . . . . .	120	21	4 193	15 667	3 538	6 875	11 688	40 386	2 268	2 252	22 001
LOUISIANA . . . . .	201	36	3 240	15 211	2 536	4 993	10 516	26 427	1 811	2 750	16 000
OKLAHOMA . . . . .	394	88	11 495	55 398	8 257	15 938	35 591	96 278	5 739	11 119	79 150
TEXAS . . . . .	1 310	298	47 441	238 443	33 313	68 152	145 862	473 375	28 837	34 600	311 700
MOUNTAIN . . . . .	624	112	16 978	88 727	12 083	24 021	56 875	154 445	12 722	9 018	61 447
MONTANA . . . . .	36	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	140	857
IDAHO . . . . .	59	9	845	6 000	684	1 391	4 582	8 399	523	(1)	(1)
WYOMING . . . . .	20	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)
COLORADO . . . . .	214	51	6 585	32 158	4 897	9 553	21 434	66 680	4 539	5 408	37 244
NEW MEXICO . . . . .	66	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)
ARIZONA . . . . .	146	24	5 360	31 072	3 513	7 407	17 721	38 820	4 790	1 337	7 658
UTAH . . . . .	68	16	2 851	13 838	1 952	3 745	9 034	30 641	1 860	1 600	11 930
NEVADA . . . . .	15	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(1)	(1)
PACIFIC . . . . .	5 825	1 274	177 249	1 001 550	122 777	245 420	605 301	1 708 357	101 418	129 641	1 042 795
WASHINGTON . . . . .	382	70	6 507	35 638	4 790	9 280	24 966	65 069	3 382	6 167	43 663
OREGON . . . . .	336	54	6 529	36 300	4 866	9 359	24 476	67 350	6 428	4 718	40 697
CALIFORNIA . . . . .	5 107	1 150	164 213	929 612	113 121	226 781	555 859	1 575 938	91 608	118 753	958 434

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	ELECTRICAL MACHINERY, TOTAL. . . . .	8 091	3 799	1 122 284	5 605 985	808 621	1 589 497	3 509 746	10 395 369	449 925	(*)	(*)
	NEW ENGLAND . . . . .	755	388	118 489	542 503	86 773	172 316	340 777	1 005 877	40 732	(*)	(*)
	MAINE. . . . .	8	6	862	2 905	708	1 363	2 145	5 528	(D)	(*)	(*)
	NEW HAMPSHIRE. . . . .	35	23	7 726	31 407	6 308	13 010	22 392	55 546	2 256	(*)	(*)
	VERMONT. . . . .	8	5	1 397	6 082	1 087	2 143	3 982	9 015	(D)	(*)	(*)
	MASSACHUSETTS. . . . .	414	198	73 352	339 410	53 165	105 821	210 848	607 868	26 349	(*)	(*)
	RHODE ISLAND . . . . .	37	20	3 465	12 225	2 906	5 378	8 883	25 063	675	(*)	(*)
	CONNECTICUT. . . . .	253	136	31 687	150 474	22 599	44 601	92 530	302 857	9 045	(*)	(*)
	MIDDLE ATLANTIC . . . . .	2 671	1 238	342 620	1 737 259	240 122	470 252	1 050 995	3 061 593	118 671	(*)	(*)
	NEW YORK . . . . .	1 452	613	138 684	700 941	96 033	188 832	410 083	1 258 499	37 769	(*)	(*)
	NEW JERSEY . . . . .	695	319	107 696	556 653	75 609	147 879	340 476	875 573	42 274	(*)	(*)
	PENNSYLVANIA . . . . .	524	306	96 240	479 665	68 480	133 541	300 436	927 521	38 628	(*)	(*)
	EAST NORTH CENTRAL. . . . .	2 056	1 106	413 809	2 093 211	302 617	590 717	1 357 755	3 891 559	160 431	(*)	(*)
	OHIO . . . . .	477	277	108 122	570 576	81 038	158 159	384 065	1 143 242	54 693	(*)	(*)
	INDIANA. . . . .	190	118	75 974	377 022	59 013	114 948	263 265	680 987	24 847	(*)	(*)
	ILLINOIS. . . . .	904	479	162 255	788 636	114 493	223 446	486 450	1 455 423	61 423	(*)	(*)
	MICHIGAN. . . . .	303	126	27 179	144 181	19 785	39 113	93 053	253 817	6 896	(*)	(*)
	WISCONSIN. . . . .	182	106	40 271	212 796	28 288	55 051	130 922	358 090	12 572	(*)	(*)
	WEST NORTH CENTRAL. . . . .	384	195	52 116	239 058	39 192	76 965	156 806	462 289	38 439	(*)	(*)
	MINNESOTA. . . . .	105	53	10 787	50 580	8 211	15 958	34 312	92 108	2 463	(*)	(*)
	IOWA. . . . .	70	36	14 765	69 761	10 767	21 839	43 943	163 748	(D)	(*)	(*)
	MISSOURI. . . . .	153	81	21 717	98 570	16 348	31 617	64 895	171 586	4 988	(*)	(*)
	NORTH DAKOTA. . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA. . . . .	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA. . . . .	23	10	3 349	14 364	2 623	5 168	9 349	22 796	(D)	(*)	(*)
	KANSAS. . . . .	30	14	1 457	5 693	1 205	2 318	4 238	11 291	465	(*)	(*)
	SOUTH ATLANTIC. . . . .	357	159	50 799	249 582	34 423	68 167	140 460	512 667	22 498	(*)	(*)
	DELAWARE. . . . .	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MARYLAND. . . . .	77	35	16 635	97 122	9 921	19 594	48 258	152 112	5 614	(*)	(*)
	DISTRICT OF COLUMBIA. . . . .	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	VIRGINIA. . . . .	26	16	5 960	27 947	3 413	7 010	12 057	69 819	1 225	(*)	(*)
	WEST VIRGINIA. . . . .	21	10	3 516	17 024	3 018	6 055	13 610	53 224	1 791	(*)	(*)
	NORTH CAROLINA. . . . .	50	34	13 846	59 621	9 909	19 544	36 177	143 130	6 698	(*)	(*)
	SOUTH CAROLINA. . . . .	7	5	1 715	5 644	1 365	2 651	3 881	12 337	917	(*)	(*)
	GEORGIA. . . . .	37	21	3 808	18 458	2 856	5 606	11 683	41 313	1 405	(*)	(*)
	FLORIDA. . . . .	122	34	5 046	22 695	3 728	7 338	14 106	37 536	4 615	(*)	(*)
	EAST SOUTH CENTRAL. . . . .	163	98	34 606	156 570	27 517	54 106	107 246	423 934	12 466	(*)	(*)
	KENTUCKY. . . . .	51	31	17 132	83 419	13 732	26 443	58 866	238 268	4 998	(*)	(*)
	TENNESSEE. . . . .	67	41	10 708	47 324	8 217	16 671	29 859	123 949	5 806	(*)	(*)
	ALABAMA. . . . .	26	12	3 766	14 978	3 002	5 681	10 690	33 797	589	(*)	(*)
	MISSISSIPPI. . . . .	19	14	3 000	10 849	2 566	5 311	7 831	27 920	1 073	(*)	(*)
	WEST SOUTH CENTRAL. . . . .	219	64	15 257	69 574	11 325	22 833	43 350	143 521	8 970	(*)	(*)
	ARKANSAS. . . . .	19	11	2 914	10 580	2 575	5 137	8 274	29 214	1 568	(*)	(*)
	LOUISIANA. . . . .	15	2	158	576	121	226	371	1 199	48	(*)	(*)
	OKLAHOMA. . . . .	32	10	2 161	9 254	1 615	2 996	6 100	19 088	2 419	(*)	(*)
	TEXAS. . . . .	153	41	10 024	49 164	7 014	14 474	28 605	94 020	4 935	(*)	(*)
	MOUNTAIN. . . . .	101	30	5 339	26 764	4 011	8 198	18 328	44 539	2 626	(*)	(*)
	MONTANA. . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WYOMING. . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	COLORADO. . . . .	41	14	1 907	8 134	1 472	2 959	5 621	16 137	603	(*)	(*)
	NEW MEXICO. . . . .	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ARIZONA. . . . .	35	6	2 362	14 390	1 697	3 593	9 563	19 907	1 331	(*)	(*)
	UTAH. . . . .	11	6	593	2 605	489	973	2 021	5 300	660	(*)	(*)
	NEVADA. . . . .	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	PACIFIC . . . . .	1 385	521	89 257	491 464	62 641	125 943	294 029	849 390	45 093	(*)	(*)
	WASHINGTON. . . . .	61	15	1 242	6 402	918	1 766	4 182	12 240	614	(*)	(*)
	OREGON. . . . .	50	13	2 467	13 977	1 867	3 639	9 263	28 960	4 062	(*)	(*)
	CALIFORNIA. . . . .	1 274	493	85 548	471 085	59 856	120 538	280 584	808 190	40 417	(*)	(*)
361	ELECTRIC DISTRIBUTION PRODUCTS, TOTAL	1 069	485	134 395	724 346	90 543	181 527	426 210	1 338 652	48 276	(*)	(*)
	NEW ENGLAND . . . . .	104	50	19 917	108 549	11 803	23 687	54 652	192 286	7 553	(*)	(*)
	MASSACHUSETTS. . . . .	54	19	13 541	78 407	7 305	14 732	37 123	131 391	3 990	(*)	(*)
	CONNECTICUT. . . . .	36	22	3 129	15 190	2 047	4 090	8 174	28 921	726	(*)	(*)
	MIDDLE ATLANTIC . . . . .	335	154	46 131	252 471	30 479	60 182	149 982	474 403	13 946	(*)	(*)
	NEW YORK . . . . .	144	62	7 612	37 352	5 298	10 426	22 747	62 790	1 356	(*)	(*)
	NEW JERSEY . . . . .	127	53	12 568	64 976	8 873	17 127	38 625	101 568	3 334	(*)	(*)
	PENNSYLVANIA . . . . .	64	39	25 951	150 143	16 308	32 629	88 610	310 045	9 256	(*)	(*)
	NORTH CENTRAL . . . . .	310	140	40 035	210 668	28 558	57 331	129 494	364 894	9 327	(*)	(*)
	OHIO . . . . .	61	33	5 774	28 301	4 152	8 205	17 620	53 666	1 439	(*)	(*)
	ILLINOIS . . . . .	105	51	14 899	75 383	10 650	20 997	45 390	131 590	3 193	(*)	(*)
	MICHIGAN . . . . .	47	14	3 581	21 453	2 217	4 434	11 521	32 977	506	(*)	(*)
	WISCONSIN. . . . .	23	11	3 353	22 370	2 269	4 830	12 001	36 996	1 752	(*)	(*)
	MINNESOTA. . . . .	16	4	495	2 028	431	883	1 578	3 107	61	(*)	(*)
	IOWA . . . . .	11	5	727	2 985	604	1 175	2 242	11 039	181	(*)	(*)
	MISSOURI . . . . .	19	11	5 004	25 251	3 752	7 721	17 132	47 572	897	(*)	(*)
	SOUTH ATLANTIC. . . . .	47	25	6 127	29 039	3 981	7 906	15 561	65 923	4 222	(*)	(*)
	MARYLAND. . . . .	13	5	906	4 000	536	1 039	1 699	4 925	(D)	(*)	(*)
	NORTH CAROLINA. . . . .	6	4	1 696	7 627	1 017	2 090	3 653	24 600	1 508	(*)	(*)
	GEORGIA. . . . .	13	9	2 701	14 257	1 908	3 830	8 241	30 068	719	(*)	(*)
	FLORIDA. . . . .	9	6	749	2 850	461	832	1 774	5 724	(D)	(*)	(*)

See footnotes at end of table.



## ELECTRICAL MACHINERY

36-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
361	ELECTRIC DISTRIBUTION PRODUCTS—CON.											
	EAST SOUTH CENTRAL . . . . .	18	8	1 608	7 114	1 201	2 406	4 300	20 200	1 655	(*)	(*)
	KENTUCKY . . . . .	6	4	951	4 234	784	1 525	2 617	13 846	(0)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	32	13	1 386	6 445	1 038	2 106	4 014	15 084	416	(*)	(*)
	MOUNTAIN . . . . .	15	4	852	4 360	666	1 345	2 984	9 417	233	(*)	(*)
	COLORADO . . . . .	8	3	782	4 084	604	1 223	2 728	8 790	(0)	(*)	(*)
	PACIFIC . . . . .	208	91	18 339	105 700	12 817	26 564	65 223	196 445	10 924	(*)	(*)
	CALIFORNIA . . . . .	185	81	16 235	93 285	11 299	23 555	57 571	167 669	7 384	(*)	(*)
362	ELECTRIC INDUSTRIAL APPARATUS, TOTAL	1 061	528	156 332	819 108	107 006	210 839	496 164	1 447 753	59 787	(*)	(*)
	NEW ENGLAND . . . . .	79	32	6 374	30 169	4 348	8 454	16 742	49 173	1 284	(*)	(*)
	MASSACHUSETTS . . . . .	31	13	2 184	9 901	1 510	2 862	5 409	15 639	647	(*)	(*)
	CONNECTICUT . . . . .	40	16	3 788	18 613	2 542	5 031	10 385	31 139	602	(*)	(*)
	MIDDLE ATLANTIC . . . . .	269	130	42 833	230 339	28 073	56 165	135 775	405 022	16 915	(*)	(*)
	NEW YORK . . . . .	132	57	24 685	137 019	15 707	31 245	79 647	242 741	9 825	(*)	(*)
	NEW JERSEY . . . . .	75	31	7 000	35 615	4 871	9 790	22 183	51 977	2 679	(*)	(*)
	PENNSYLVANIA . . . . .	62	42	11 148	57 705	7 495	15 130	33 945	110 304	4 411	(*)	(*)
	EAST NORTH CENTRAL . . . . .	403	230	78 687	416 910	54 851	107 212	257 112	722 724	27 539	(*)	(*)
	OHIO . . . . .	119	80	32 661	177 521	23 079	44 737	113 454	310 082	10 319	(*)	(*)
	INDIANA . . . . .	33	22	10 028	50 183	7 069	13 892	30 577	91 377	(0)	(*)	(*)
	ILLINOIS . . . . .	119	53	10 343	50 067	7 035	14 128	28 300	92 844	4 084	(*)	(*)
	MICHIGAN . . . . .	82	39	5 001	26 461	3 656	7 227	16 106	41 113	(0)	(*)	(*)
	WISCONSIN . . . . .	50	36	20 654	112 678	14 012	27 228	68 678	187 308	7 252	(*)	(*)
	WEST NORTH CENTRAL . . . . .	56	36	10 699	54 767	7 816	15 127	35 216	85 799	3 268	(*)	(*)
	MINNESOTA . . . . .	20	15	2 979	16 782	2 071	4 307	10 152	29 496	1 209	(*)	(*)
	IOWA . . . . .	6	3	368	1 432	282	537	950	2 803	125	(*)	(*)
	MISSOURI . . . . .	24	16	7 263	36 278	5 384	10 133	23 902	52 812	1 915	(*)	(*)
	SOUTH ATLANTIC . . . . .	37	17	6 953	35 387	4 154	8 428	18 287	82 654	4 301	(*)	(*)
	MARYLAND . . . . .	7	5	778	3 308	580	1 075	2 123	5 842	257	(*)	(*)
	FLORIDA . . . . .	8	1	131	580	95	178	340	1 230	50	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	22	12	1 690	7 628	1 389	2 767	5 659	22 334	3 392	(*)	(*)
	KENTUCKY . . . . .	7	3	450	1 882	382	765	1 427	4 075	(0)	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	22	6	1 522	5 691	1 258	2 472	4 185	14 597	530	(*)	(*)
	ARKANSAS . . . . .	5	4	1 124	3 905	1 008	1 981	3 237	12 331	463	(*)	(*)
	MOUNTAIN . . . . .	17	6	814	2 833	637	1 264	2 116	4 413	235	(*)	(*)
	COLORADO . . . . .	11	6	759	2 628	593	1 195	1 951	4 014	222	(*)	(*)
	PACIFIC . . . . .	156	59	6 760	35 384	4 480	8 950	21 072	61 037	2 324	(*)	(*)
	WASHINGTON . . . . .	7	3	178	940	120	243	596	1 771	40	(*)	(*)
	CALIFORNIA . . . . .	142	56	6 555	34 310	4 337	8 666	20 376	58 927	2 252	(*)	(*)
363	HOUSEHOLD APPLIANCES, TOTAL . . . . .	651	321	142 951	731 626	108 632	213 089	499 931	1 548 808	43 038	(*)	(*)
	NEW ENGLAND . . . . .	45	22	8 209	38 592	6 087	11 703	25 458	94 751	2 624	(*)	(*)
	CONNECTICUT . . . . .	20	13	6 773	32 807	4 879	9 473	21 533	83 508	2 309	(*)	(*)
	MIDDLE ATLANTIC . . . . .	188	70	18 344	84 181	14 053	26 216	58 070	140 573	8 406	(*)	(*)
	NEW YORK . . . . .	130	46	7 189	30 389	5 621	10 487	20 742	55 558	2 428	(*)	(*)
	NEW JERSEY . . . . .	28	7	5 959	29 506	4 504	8 445	21 289	35 695	(0)	(*)	(*)
	PENNSYLVANIA . . . . .	30	17	5 196	24 286	3 928	7 284	16 039	49 320	(0)	(*)	(*)
	EAST NORTH CENTRAL . . . . .	208	120	77 211	417 829	58 392	115 462	289 710	830 740	21 710	(*)	(*)
	OHIO . . . . .	49	35	29 859	175 927	23 345	47 428	128 072	394 390	6 877	(*)	(*)
	INDIANA . . . . .	15	9	8 666	42 580	6 598	12 928	29 780	66 134	2 492	(*)	(*)
	ILLINOIS . . . . .	78	39	23 518	118 689	17 118	33 045	77 448	229 224	8 768	(*)	(*)
	MICHIGAN . . . . .	43	21	8 368	45 214	6 324	12 163	31 704	75 606	1 797	(*)	(*)
	WISCONSIN . . . . .	23	16	6 800	35 419	5 007	9 898	22 706	65 386	1 776	(*)	(*)
	WEST NORTH CENTRAL . . . . .	45	24	11 190	50 701	8 656	16 954	33 936	120 456	3 012	(*)	(*)
	IOWA . . . . .	14	7	5 015	26 593	3 544	7 413	16 501	70 226	(0)	(*)	(*)
	KANSAS . . . . .	3	3	112	386	89	147	248	781	40	(*)	(*)
	SOUTH ATLANTIC . . . . .	27	14	2 829	11 933	2 227	4 245	8 481	26 378	692	(*)	(*)
	NORTH CAROLINA . . . . .	6	5	1 061	3 604	842	1 566	2 449	11 169	297	(*)	(*)
	FLORIDA . . . . .	8	2	120	429	99	209	295	873	20	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	37	29	16 991	85 539	13 211	26 384	57 185	235 292	4 060	(*)	(*)
	TENNESSEE . . . . .	19	16	5 966	27 342	4 337	9 002	15 634	60 394	1 624	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	22	8	1 011	3 595	837	1 632	2 665	5 836	117	(*)	(*)
	TEXAS . . . . .	11	4	426	1 767	322	619	1 255	3 089	94	(*)	(*)
	WEST . . . . .	79	34	7 166	39 256	5 169	10 493	24 426	94 782	2 417	(*)	(*)
	CALIFORNIA . . . . .	64	29	6 726	37 214	4 821	9 868	23 010	92 295	2 313	(*)	(*)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
364	LIGHTING AND WIRING DEVICES, TOTAL..	1 819	736	123 334	564 196	95 215	185 848	382 901	1 176 672	42 296	(*)	(*)
	NEW ENGLAND . . . . .	157	78	18 180	79 446	13 816	26 723	52 790	169 291	5 138	(*)	(*)
	MASSACHUSETTS . . . . .	86	39	7 252	31 501	5 703	11 373	21 836	74 297	2 680	(*)	(*)
	CONNECTICUT . . . . .	55	29	8 617	39 378	6 186	11 726	24 741	75 897	2 141	(*)	(*)
	MIDDLE ATLANTIC . . . . .	761	295	43 169	188 531	34 080	66 084	132 156	381 863	15 156	(*)	(*)
	NEW YORK . . . . .	460	145	18 382	76 805	14 591	27 982	53 456	144 183	4 916	(*)	(*)
	NEW JERSEY . . . . .	135	58	12 391	57 263	9 695	19 471	39 796	107 033	4 712	(*)	(*)
	PENNSYLVANIA . . . . .	166	92	12 396	54 463	9 794	18 631	38 904	130 647	5 528	(*)	(*)
	EAST NORTH CENTRAL . . . . .	396	192	38 002	185 364	28 405	55 202	121 234	371 074	13 410	(*)	(*)
	OHIO . . . . .	102	55	12 399	59 974	9 640	18 154	41 057	141 700	3 705	(*)	(*)
	INDIANA . . . . .	19	11	5 886	30 251	4 641	8 882	22 014	54 016	2 005	(*)	(*)
	ILLINOIS . . . . .	220	110	17 281	82 729	12 490	24 972	51 081	154 955	6 314	(*)	(*)
	MICHIGAN . . . . .	31	11	1 088	5 760	829	1 581	3 703	11 957	568	(*)	(*)
	WISCONSIN . . . . .	24	5	1 348	6 650	805	1 613	3 379	8 446	818	(*)	(*)
	WEST NORTH CENTRAL . . . . .	68	29	3 933	17 949	2 966	5 746	11 435	36 284	1 092	(*)	(*)
	MINNESOTA . . . . .	8	3	193	991	160	356	730	1 919	41	(*)	(*)
	MISSOURI . . . . .	48	24	3 618	16 552	2 696	5 188	10 400	33 671	1 012	(*)	(*)
	SOUTH ATLANTIC . . . . .	66	16	3 849	17 436	3 193	6 425	13 453	54 659	1 565	(*)	(*)
	WEST VIRGINIA . . . . .	5	4	2 165	10 610	1 925	3 997	8 945	36 851	631	(*)	(*)
	EAST SOUTH CENTRAL . . . . .	34	23	5 024	20 506	4 014	8 048	14 203	55 341	1 543	(*)	(*)
	TENNESSEE . . . . .	11	5	820	3 374	671	1 281	2 455	9 749	297	(*)	(*)
	MISSISSIPPI . . . . .	4	4	1 127	5 107	953	1 961	3 458	15 074	386	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	33	8	957	3 938	820	1 574	2 871	11 077	718	(*)	(*)
	MOUNTAIN . . . . .	10	1	139	675	101	206	396	1 377	70	(*)	(*)
	PACIFIC . . . . .	294	94	10 081	50 351	7 820	15 840	34 363	95 706	3 604	(*)	(*)
	WASHINGTON . . . . .	10	3	349	1 838	277	555	1 312	3 376	(10)	(*)	(*)
	CALIFORNIA . . . . .	276	90	9 665	48 187	7 509	15 223	32 934	91 846	2 875	(*)	(*)
365	RADIO, TV, RECEIVING EQUIPMENT, TOTAL	328	197	73 926	326 045	57 905	112 645	220 304	687 026	15 319	(*)	(*)
	NEW ENGLAND . . . . .	22	13	3 129	11 361	2 572	5 283	8 000	35 053	570	(*)	(*)
	MASSACHUSETTS . . . . .	11	6	1 406	4 129	1 291	2 600	3 470	11 190	199	(*)	(*)
	MIDDLE ATLANTIC . . . . .	121	76	23 619	109 574	17 192	33 600	68 736	203 755	4 030	(*)	(*)
	NEW YORK . . . . .	79	45	11 490	55 614	8 663	17 004	34 932	114 162	1 513	(*)	(*)
	NEW JERSEY . . . . .	31	21	6 732	28 944	4 753	9 165	18 529	50 186	1 718	(*)	(*)
	PENNSYLVANIA . . . . .	11	10	5 397	25 016	3 776	7 431	15 275	39 407	799	(*)	(*)
	EAST NORTH CENTRAL . . . . .	89	63	38 325	168 342	31 458	60 611	120 025	373 876	9 150	(*)	(*)
	OHIO . . . . .	11	6	2 845	10 856	2 328	4 165	7 811	21 745	4 499	(*)	(*)
	INDIANA . . . . .	13	13	11 133	49 230	9 408	18 377	37 187	119 969	3 158	(*)	(*)
	ILLINOIS . . . . .	51	35	21 509	95 617	17 672	34 151	67 261	207 654	4 613	(*)	(*)
	WEST NORTH CENTRAL . . . . .	10	7	1 510	5 494	1 224	2 378	3 852	8 593	72	(*)	(*)
	SOUTH . . . . .	18	8	2 947	11 659	2 335	4 746	8 363	34 264	556	(*)	(*)
	WEST . . . . .	68	30	4 396	19 615	3 124	6 027	11 328	31 485	941	(*)	(*)
366	COMMUNICATION EQUIPMENT, TOTAL . . .	607	315	215 059	1 203 898	133 684	264 951	652 317	2 038 438	147 452	(*)	(*)
	NEW ENGLAND . . . . .	73	50	20 057	101 039	13 612	28 523	60 747	196 950	12 126	(*)	(*)
	MASSACHUSETTS . . . . .	40	29	15 701	80 083	10 411	21 448	46 828	164 539	10 982	(*)	(*)
	CONNECTICUT . . . . .	25	15	2 777	13 944	1 850	3 984	8 180	24 596	1 021	(*)	(*)
	MIDDLE ATLANTIC . . . . .	190	99	75 069	446 271	45 189	88 301	231 314	743 939	24 272	(*)	(*)
	NEW YORK . . . . .	105	58	34 845	205 923	20 605	40 107	99 010	376 198	9 628	(*)	(*)
	NEW JERSEY . . . . .	57	31	35 543	217 661	21 800	43 211	120 263	331 673	13 837	(*)	(*)
	PENNSYLVANIA . . . . .	28	10	4 681	22 687	2 784	4 983	12 041	36 068	807	(*)	(*)
	NORTH CENTRAL . . . . .	150	73	74 324	391 521	46 302	90 736	221 678	671 959	89 016	(*)	(*)
	OHIO . . . . .	28	10	4 103	19 860	2 754	5 278	10 298	24 871	(10)	(*)	(*)
	INDIANA . . . . .	9	6	8 135	46 750	5 101	10 194	26 334	80 115	6 373	(*)	(*)
	ILLINOIS . . . . .	62	36	52 775	278 089	32 117	62 374	157 555	482 668	29 509	(*)	(*)
	MISSOURI . . . . .	11	6	681	3 217	354	695	1 281	6 043	115	(*)	(*)
	SOUTH . . . . .	68	36	24 765	137 595	14 728	29 210	67 161	233 344	11 640	(*)	(*)
	MARYLAND . . . . .	16	12	12 584	75 583	7 140	14 145	36 592	116 176	4 567	(*)	(*)
	FLORIDA . . . . .	15	7	1 255	7 050	1 000	1 982	4 509	10 627	1 134	(*)	(*)
	TEXAS . . . . .	8	3	3 277	18 667	1 648	3 457	7 160	23 516	1 911	(*)	(*)
	WEST . . . . .	126	57	20 844	127 472	13 853	28 181	71 417	192 246	10 398	(*)	(*)
	CALIFORNIA . . . . .	107	52	18 956	115 945	12 387	25 062	63 028	174 080	9 908	(*)	(*)

See footnotes at end of table.



## ELECTRICAL MACHINERY

36-7

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
367	ELECTRONIC COMPONENTS: TOTAL . . . .	1 687	852	197 910	853 803	155 242	302 313	570 737	1 433 885	72 247	(*)	(*) 67 367
	NEW ENGLAND . . . . .	210	114	38 098	152 958	31 075	61 249	109 297	232 642	10 604	(*)	(*) 12 367
	NEW HAMPSHIRE . . . . .	11	9	3 064	10 744	2 656	5 304	8 239	16 488	1 495	(*)	(*) 12 367
	MASSACHUSETTS . . . . .	133	68	29 333	117 695	23 844	46 928	84 674	179 313	7 043	(*)	(*) 14 367
	RHODE ISLAND . . . . .	8	3	374	1 011	315	572	750	2 000	75	(*)	(*) 15 367
	CONNECTICUT . . . . .	51	30	4 566	20 975	3 608	7 216	13 676	30 996	1 884	(*)	(*) 16 367
	MIDDLE ATLANTIC . . . . .	585	311	74 417	337 125	56 849	111 084	218 127	557 058	31 977	(*)	(*) 2 367
	NEW YORK . . . . .	277	140	23 243	108 620	17 351	34 903	68 424	178 809	6 489	(*)	(*) 21 367
	NEW JERSEY . . . . .	195	97	24 093	106 817	18 498	35 524	68 679	168 096	10 427	(*)	(*) 22 367
	PENNSYLVANIA . . . . .	113	74	27 081	121 688	21 000	40 657	81 024	210 153	15 061	(*)	(*) 23 367
	EAST NORTH CENTRAL . . . . .	337	198	39 995	159 565	32 860	62 913	113 607	284 553	7 929	(*)	(*) 3 367
	OHIO . . . . .	55	28	7 695	29 958	6 419	11 992	22 183	57 018	2 249	(*)	(*) 31 367
	INDIANA . . . . .	43	25	10 295	42 559	8 815	16 859	31 549	77 811	1 423	(*)	(*) 32 367
	ILLINOIS . . . . .	180	118	17 321	67 802	13 902	26 980	46 089	112 928	3 536	(*)	(*) 33 367
	MICHIGAN . . . . .	31	9	2 281	10 483	1 792	3 709	7 186	22 891	493	(*)	(*) 34 367
	WISCONSIN . . . . .	28	18	2 403	8 763	1 932	3 373	6 600	13 905	228	(*)	(*) 35 367
	WEST NORTH CENTRAL . . . . .	76	41	6 663	24 256	5 000	9 690	15 651	45 554	1 303	(*)	(*) 4 367
	MINNESOTA . . . . .	24	14	1 796	8 347	1 240	2 492	5 280	12 449	513	(*)	(*) 41 367
	IOWA . . . . .	17	11	1 794	6 532	1 364	2 717	4 258	17 255	260	(*)	(*) 42 367
	MISSOURI . . . . .	16	7	1 108	3 204	792	1 273	1 919	4 814	146	(*)	(*) 43 367
	SOUTH ATLANTIC . . . . .	66	36	6 417	20 451	5 444	10 751	15 099	39 601	1 860	(*)	(*) 5 367
	MARYLAND . . . . .	14	6	377	1 742	301	604	1 112	3 902	322	(*)	(*) 52 367
	NORTH CAROLINA . . . . .	11	10	2 714	7 310	2 416	4 633	6 017	15 666	411	(*)	(*) 56 367
	FLORIDA . . . . .	21	8	1 121	4 689	877	1 777	3 141	8 190	466	(*)	(*) 59 367
	EAST SOUTH CENTRAL . . . . .	22	13	6 189	23 236	5 166	9 301	16 601	47 425	952	(*)	(*) 6 367
	ALABAMA . . . . .	6	4	2 099	7 297	1 824	3 346	5 749	17 709	318	(*)	(*) 63 367
	WEST SOUTH CENTRAL . . . . .	42	9	4 413	19 910	3 622	7 424	14 632	51 714	2 365	(*)	(*) 7 367
	MOUNTAIN . . . . .	28	10	1 490	6 627	1 024	2 022	3 838	8 461	1 429	(*)	(*) 8 367
	COLORADO . . . . .	6	1	121	345	93	175	204	401	13	(*)	(*) 84 367
	ARIZONA . . . . .	12	4	737	3 736	423	843	1 769	3 295	815	(*)	(*) 86 367
	PACIFIC . . . . .	321	120	20 228	109 675	14 202	27 879	63 885	166 877	13 828	(*)	(*) 9 367
	CALIFORNIA . . . . .	306	119	19 956	108 175	13 944	27 400	62 461	164 866	13 653	(*)	(*) 93 367
369	ELECTRICAL PRODUCTS: NEC: TOTAL <sup>2</sup> . .	869	365	78 377	382 963	60 394	118 285	261 182	724 135	21 510	88 353	641 134 69 369
	NEW ENGLAND . . . . .	65	29	4 525	20 389	3 460	6 694	13 091	35 731	833	7 107	47 686 15 369
	MIDDLE ATLANTIC . . . . .	222	103	19 038	88 767	14 207	28 620	56 835	154 980	3 969	22 172	148 400 2 369
	NEW YORK . . . . .	125	60	11 238	49 219	8 197	16 678	31 125	84 058	(D)	11 665	78 216 21 369
	NEW JERSEY . . . . .	47	21	3 410	15 871	2 615	5 146	11 112	29 345	(D)	5 351	36 158 22 369
	PENNSYLVANIA . . . . .	50	22	4 390	23 677	3 395	6 796	14 598	41 577	1 345	5 155	34 024 23 369
	EAST NORTH CENTRAL . . . . .	242	124	41 762	215 218	32 300	62 634	150 675	408 651	10 873	46 958	365 407 3 369
	OHIO . . . . .	52	30	12 786	68 179	9 321	18 200	43 570	139 770	(D)	15 000	114 000 31 369
	ILLINOIS . . . . .	89	37	4 609	20 260	3 509	6 799	13 326	43 560	1 406	(*)	(*) 33 369
	MICHIGAN . . . . .	39	19	3 587	19 065	2 806	5 790	13 782	38 712	1 419	(*)	(*) 34 369
	WEST NORTH CENTRAL . . . . .	50	24	3 581	13 685	3 021	5 686	10 936	28 691	1 169	3 838	21 954 4 369
	MINNESOTA . . . . .	15	6	477	1 874	394	703	1 388	2 993	208	720	4 440 41 369
	KANSAS . . . . .	6	5	586	2 773	485	904	2 191	5 232	192	(*)	(*) 47 369
	SOUTH . . . . .	126	40	5 984	28 624	4 647	9 281	18 336	64 399	3 350	5 235	36 614 369
	GEORGIA . . . . .	10	6	564	2 587	474	936	2 136	6 868	(D)	(*)	(*) 58 369
	FLORIDA . . . . .	26	5	1 317	5 960	927	1 870	3 232	9 110	(D)	150	1 050 59 369
	TENNESSEE . . . . .	12	6	424	1 745	351	694	1 292	5 486	273	644	4 645 62 369
	TEXAS . . . . .	34	9	1 101	4 789	910	1 854	3 695	10 802	390	(*)	(*) 74 369
	WEST . . . . .	164	45	3 487	16 280	2 759	5 370	11 309	31 683	1 316	3 037	21 068 369
	COLORADO . . . . .	8	3	133	560	107	218	451	1 838	91	120	790 84 369
	OREGON . . . . .	8	3	132	638	104	209	477	1 314	40	145	937 92 369

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Revisions in the 1957 Standard Industrial Classification for some industries with Major Groups 35 and 36 make separate data for these two Major Groups not comparable with earlier years. The details of the revisions are described in the texts for the individual industries involved. Data for establishments classified in Major Groups 35 and 36, combined, are comparable between 1958 and 1954, and are shown in this table. Separate data for 1958 for Major Group 35 are shown in the next table. Similar separate 1958 data for Major Group 36 are shown in the next Chapter.

<sup>2</sup>The 1954 data for this industry group are not strictly comparable with 1958 figures shown in the table. See Appendix A or section relating to the specified industry in 1958 Census of Manufactures, Volume II for further information on the comparability of 1958 and 1954 statistics.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Electrical machinery (SIC 36)	Electrical distri- bution products (SIC 361)	Electrical industrial apparatus (SIC 362)	Household appliances (SIC 363)	Electric lighting and wiring equipment (SIC 364)	Radio, TV receiving equipment (SIC 365)	Communi- cation equipment (SIC 366)	Electronic componets (SIC 367)	Electrical products, nec (SIC 369)
Number of establishments, total.....	8,091	1,069	1,061	651	1,819	328	607	1,687	869
With 1-19 employees.....	4,292	584	533	330	1,083	131	292	835	504
With 20-99 employees.....	2,113	264	276	133	486	90	133	506	225
With 100 employees or more.....	1,686	221	252	188	250	107	182	346	140
Proprietors and working partners.....Number..	2,301	231	256	164	742	67	129	371	341
All employees:									
Number (average for the year).....	1,122,284	134,395	156,332	142,951	123,334	73,926	215,059	197,910	78,377
Payroll.....\$1,000..	5,605,985	724,346	819,108	731,626	564,196	326,045	1,203,898	853,803	382,963
Production workers:									
Number (average for the year).....	808,621	90,543	107,006	108,632	95,215	57,905	133,684	155,242	60,394
March.....	802,128	90,942	110,088	110,510	94,778	51,023	136,021	149,590	59,176
May.....	771,254	87,935	104,721	102,976	91,449	49,762	131,131	146,100	57,180
August.....	800,100	90,214	102,547	103,629	94,314	62,611	130,995	156,842	58,948
November.....	861,587	93,326	110,929	116,977	100,570	68,336	136,617	168,418	66,414
Man-hours.....1,000..	1,589,497	181,527	210,839	213,089	185,848	112,645	264,951	302,313	118,285
January-March.....do....	399,364	45,886	55,498	54,370	46,978	26,129	68,260	72,791	29,452
April-June.....do....	381,511	44,403	52,196	50,243	44,877	24,369	65,586	71,826	28,011
July-September.....do....	373,697	43,519	48,509	49,189	43,769	28,712	59,086	72,562	28,351
October-December.....do....	433,053	47,264	54,266	58,851	50,159	33,342	71,971	85,074	32,126
Wages.....\$1,000..	3,509,746	426,210	496,164	499,931	382,901	220,304	652,317	570,737	261,182
Value added by manufacture, adjusted....do....	10,395,369	1,338,652	1,447,753	1,548,808	1,176,672	687,026	2,038,438	1,433,885	724,135
Cost of fuels consumed.....do....	58,480	6,124	9,903	14,315	8,202	2,359	6,583	6,320	4,674
Cost of electricity purchased.....do....	95,122	9,541	19,930	16,438	11,054	3,968	9,663	15,907	8,621
Manufacturers' inventories:									
Beginning of year, total.....do....	3,707,146	521,748	540,810	597,444	364,986	264,713	824,669	367,655	225,121
Finished products.....do....	1,135,539	146,185	139,511	299,118	164,688	116,450	84,789	106,561	78,237
Work-in-process.....do....	1,489,245	219,719	225,564	132,647	93,119	57,838	553,155	130,501	76,703
Materials, supplies, fuel, etc.....do....	1,082,361	155,844	175,735	165,679	107,179	90,425	186,725	130,593	70,181
End of year, total.....do....	3,383,120	433,301	486,673	543,877	332,708	246,267	760,207	378,202	201,885
Finished products.....do....	969,583	111,484	127,425	242,975	137,318	103,208	79,564	106,447	61,162
Work-in-process.....do....	1,429,108	182,760	205,902	149,123	91,606	56,387	525,338	142,438	75,554
Materials, supplies, fuel, etc.....do....	984,433	139,057	153,347	151,781	103,784	86,672	155,305	129,317	65,170
Expenditures for plant and equipment, total.....do....	504,711	50,121	78,288	50,643	46,224	16,893	161,701	77,870	22,971
New, total.....do....	449,925	48,276	59,787	43,038	42,296	15,319	147,452	72,247	21,510
New structures and additions to plant.....do....	142,430	14,759	15,813	7,021	9,153	5,538	67,672	17,653	4,821
New machinery and equipment.....do....	307,495	33,517	43,974	36,017	33,143	9,781	79,780	54,594	16,689
Used plant and equipment.....do....	54,800	1,860	18,500	7,605	3,928	1,574	14,249	5,623	1,461

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.



# Electrical Transmission, Distribution, and Industrial Apparatus

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S. I. C. Code and Title (1957 Edition)

3611—Electric Measuring Instruments and Test Equipment

3612—Power, Distribution, and Specialty Transformers

3613—Switchgear and Switchboard Apparatus

3621—Motors and Generators

3622—Industrial Controls

3623—Welding Apparatus

3624—Carbon and Graphite Products

3629—Electrical Industrial Apparatus, Not Elsewhere Classified

## 3611—Electric Measuring Instruments and Test Equipment

This industry comprises establishments primarily engaged in manufacturing pocket, portable, panelboard and graphic recording instruments for measuring electricity, such as volt meters, ammeters, watt meters, watt hour meters, demand meters and other meters and indicating instruments. This industry also includes establishments primarily engaged in manufacturing analyzers for testing the electrical characteristics of internal combustion engines, radio apparatus, etc. For a detailed list of products of Industry 3611, refer to table 6A, product codes 3611111 to 3611385.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3611 from code number 3613 in the previous classification system but were only slightly changed as to content. Tripping transformers formerly classified in this industry are now considered primary to Industry 3612, Transformers.

Value of shipments and other receipts of the Electric Measuring Instruments Industry in 1958 totaled \$674 million. This included shipments of electrical measuring instruments (primary products), valued at \$475 million, shipments of other products (secondary products) valued at \$163 million, and miscellaneous receipts (mainly resales) of \$36 million.

This industry's shipments of electrical measuring instruments (primary products) in 1958 represented 74 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 75 percent. Secondary products shipped by this industry in 1958 consisted mainly of industrial process instruments \$12 million, aircraft, flight, nautical and navigational instruments \$11 million, and electronic communication equipment, except broadcast equipment \$9 million.

While the primary products of the industry include integrating instruments, test equipment and other electrical measuring instruments, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 16 percent of the total industry shipments are represented by plants specializing in 36111, Integrating instruments; 49 percent in 36112, Test equip-

ment; and 32 percent in 36113, Other electrical measuring instruments.

Industry 3611 shipments of electrical measuring instruments (primary products) in 1958 represented 81 percent (coverage ratio) of these products valued at \$588 million shipped by all industries. In 1954, the coverage ratio was 76 percent. Other industries shipping electrical measuring instruments (primary products) consisted mainly of Industry 3811, Scientific Instruments, \$19 million; Industry 3662, Radio and TV Communication Goods \$16 million; and Industry 3611, Telephone and Telegraph Apparatus \$12 million.

## 3612—Power, Distribution, and Specialty Transformers

This industry comprises establishments primarily engaged in manufacturing power, distribution and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils or chokes are classified in Industry 3679, and resistor welding transformers in Industry 3623. For a detailed list of products of Industry 3612, refer to table 6A, product codes 3612111 to 3612384.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3612 from code number 3615 in the previous classification system but were only slightly changed as to content.

Tripping transformers are now classified in this industry whereas in 1954 they were classified in Industry 3613 (old) "Electric Measuring Instruments", (new S.I.C. 3611).

Value of shipments and other receipts of the Transformers Industry in 1958 totaled \$642 million. This included shipments of transformers and parts (primary products), valued at \$596 million, shipments of other products (secondary products) valued at \$38 million, and miscellaneous receipts (mainly resales) of \$8 million.

This industry's shipments of transformers (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87. Secondary products shipped by this industry in 1958 consisted mainly of other electrical measuring instruments \$3 million, switchgear \$9 million, and coils, transformers, reactors and chokes \$11 million.

While the primary products of the industry include specialty transformers, power and distribution transformers and power regulators the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 78 percent of the total industry shipments are represented by plants specializing in 36122 (Power and distribution transformers).

Industry 3612 shipments of transformers and parts (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$638 million shipped by all industries. In 1954, the coverage ratio was 94 percent.

## 3613—Switchgear and Switchboard Apparatus

This industry comprises establishments primarily en-



gaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing industrial controls are classified in Industry 3622, and those manufacturing current carrying wiring devices in Industry 3643. For a detailed list of products of Industry 3613, refer to table 6A, product codes 3613111 to 3613493.

Industry 3613 was formerly part of Industry 3616 (old SIC). Prior to the reclassification of this industry under the 1957 edition of the Standard Industrial Classification Manual, both Industry 3613 (new), Switchgear and Switchboard Apparatus, and Industry 3622 (new), Industrial Controls, were classified as one Industry, 3616 (old). The composition of Industry 3613 as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in Tables 1 and 2A. These tables show combined data for both new industries and comparable historic data.

Value of shipments and other receipts of the Switchgear and Switchboard Apparatus Industry in 1958 totaled \$962 million. This included shipments of switchgear and switchboard apparatus (primary products), valued at \$798 million, shipments of other products (secondary products) valued at \$116 million, and miscellaneous receipts (mainly resales) of \$48 million.

This industry's shipments of switchgear and switchboard apparatus (primary products) in 1958 represented 80 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of industrial controls \$59 million, current carrying wiring devices \$7 million, power and distribution transformers \$5 million, and integrating instruments \$4 million.

While the primary products of the industry include switchgear, circuit breakers, low voltage panelboards and fuses and fuse equipment, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 53 percent of the total industry shipments are represented by plants specializing in 36131 (Switchgear); 20 percent in 36132 (Circuit breakers); and 20 percent in 36133 (Low voltage panelboards).

Industry 3613 shipments of switchgear and switchboards (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$891 million shipped by all industries.

#### 3621--Motors and Generators

This industry comprises establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generators sets; railway motors and control equipment; and motors, generators and control equipment for gasoline electric and oil electric busses and trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in Industry 3511 and starting motors and battery charging generators for internal combustion engines in Industry 3694. For a detailed list of products of Industry 3621, refer to table 6A, product codes 3621112 to 3621611.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3621 from code number

3614 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Motors and Generators Industry in 1958 totaled \$1,392 million. This included shipments of motors and generators (primary products), valued at \$1,104 million, shipments of other products (secondary products) valued at \$232 million, and miscellaneous receipts (mainly resales) of \$56 million.

This industry's shipments of motors and generators (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 82 percent. Secondary products shipped by this industry in 1958 consisted of speed changers \$22 million, other electronic components \$7 million, and aircraft assemblies, parts and auxiliary equipment, not elsewhere classified \$2 million. The remainder could be broken down no further without disclosing the operations of individual companies.

While the primary products of the industry include fractional and integral horsepower motors, integral horsepower generators, control apparatus, prime mover generator sets, motor-generator sets and rotary equipment, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 43 percent of the total industry shipments are represented by plants specializing in 36211 (Fractional horsepower motors); and 38 percent in 36212 (Integral horsepower motors and generators).

Industry 3621 shipments of motors and generators (primary products) in 1958 represented 85 percent (coverage ratio) of these products valued at \$1,291 million shipped by all industries. In 1954, the coverage ratio was 84 percent. Other industries shipping motors and generators (primary products) consisted mainly of Industry 3871, Watches and Clocks, \$8 million; and Industry 3519, Internal Combustion Engines, \$7 million.

In addition to the motors shipped by all industries in 1958, a substantial amount of motors were manufactured by many establishments for incorporation into other products shipped from the same plant. Such captive production is prevalent among establishments primarily engaged in manufacturing washing machines, machine tools, electric fans, and other electrical appliances, particularly those using fractional horsepower motors. The total production of motors is not reflected in Table 6A since the shipments data for motors exclude all captive production.

#### 3622--Industrial Controls

This industry comprises establishments primarily engaged in motor starters and controllers, control accessories, electronic controls, and other industrial controls. Establishments primarily engaged in manufacturing automatic temperature controls are classified in Industry 3822. For a detailed list of products of Industry 3622, refer to table 6A, product codes 3622012 to 3622098.

Industry 3622 was formerly part of Industry 3616 (old SIC). Prior to the reclassification of this industry under the 1957 edition of the Standard Industrial Classification, both Industry 3622 (new), Industrial Controls, and Industry 3613 (new), Switchgear and Switchboard Apparatus, were classified as one Industry, 3616 (old). The composition of Industry 3622 as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in tables 1 and 2A. These tables show



combined data for both new industries and comparable historic data.

Value of shipments and other receipts of the Industrial Controls Industry in 1958 totaled \$413 million. This included shipments of industrial controls (primary products), valued at \$315 million, shipments of other products (secondary products) valued at \$81 million, and miscellaneous receipts (mainly resales) of \$17 million.

This industry's shipments of industrial controls (primary products) in 1958 represented 79 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted of switchgear and switchboard apparatus \$20 million, and other industrial electrical equipment \$3 million. The remainder could not be broken down further without disclosing the operations of individual companies.

### 3623--Welding Apparatus

This industry comprises establishments primarily engaged in the manufacture of welding apparatus and accessories. Important products of this industry include arc welding machines, spot, projection, seam, flash and other resistance welders, welding electrodes, electrode holders and other welding machine accessories. Establishments which coat only and those which draw the wire and coat it are also included. Establishments primarily engaged in manufacturing gas welding apparatus are classified in Industry 3548. For a detailed list of products of Industry 3623, refer to table 6A, product codes 3623111 to 3623381.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3623 from code number 3617 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Welding Apparatus Industry in 1958 totaled \$248 million. This included shipments of welding apparatus (primary products), valued at \$215 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts (mainly resales) of about \$17 million.

This industry's shipments of welding apparatus (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 90. Secondary products shipped by this industry in 1958 consisted mainly of acetylene welding and cutting apparatus \$2.4 million, while the remainder cannot be broken down further without disclosing the operations of individual companies.

While the primary products of the industry include arc welding machines, metal arc welding electrodes, and resistance welders and parts, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 24 percent of the total industry shipments are represented by plants specializing in 36231 (Arc welding machinery); 53 percent in 36232 (Metal arc welding electrodes); and 20 percent in 36233 (Resistance welders and parts).

Industry 3623 shipments of welding apparatus (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$233 million shipped by all industries. In 1954, the coverage ratio was also 92 percent.

### 3624--Carbon and Graphite Products

This industry comprises establishments primarily engaged in the manufacture of carbon and graphite products for use in the electrical industries. This industry comprises establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products for use in the electrical industries. For a detailed list of products of Industry 3624, refer to table 6A, product codes 3624011 to 3624085.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3624 from code number 3612 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Carbon and Graphite Products Industry in 1958 totaled \$155 million. This included shipments of carbon and graphite products (primary products), valued at \$150 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts of \$1 million.

This industry's shipments of carbon and graphite products (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 98 percent.

Industry 3624 shipments of carbon and graphite products (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$157 million shipped by all industries. In 1954, the coverage ratio was 94 percent. Another industry shipping carbon and graphite products (primary products) was Industry 3694, Electrical Equipment for Internal Combustion Engines, \$3 million.

### 3629--Electric Industrial Apparatus, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, not elsewhere classified, such as blasting machines, and fixed and variable capacitors, condensers and rectifiers for industrial application. Establishments primarily engaged in manufacturing fixed and variable capacitors, condensers, and rectifiers for electronic and products are classified in Industry 3679. For a detailed list of products of Industry 3629, refer to table 6A, product codes 3629111 to 3629348.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with the data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in Tables 1 and 2A. This industry was changed to new code number 3629 from old 3619. Table 1 shows 1958 data for both the new 3629 and the old 3619 industries. Therefore, data for the old Industry 3619 for 1958 and prior years are comparable. Table 2A shows data for Industry 3629 as it would have appeared under the old SIC 3619 definition for the years 1958, 1954, and 1947.

High frequency, induction and dielectric heating apparatus and industrial electric heating units and devices formerly classified in this industry are now considered primary to Industry 3567, Industrial Process Furnaces and Ovens.

Value of shipments and other receipts of the Electric Industrial Apparatus, N.E.C., Industry in 1958 totaled \$229 million. This included shipments of electric industrial apparatus (primary products), valued at \$156 million, shipments of other products (secondary products) valued at \$63 million, and miscellaneous receipts of \$10 million.

This industry's shipments of electric industrial apparatus (primary products) in 1958 represented 71 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of industrial controls \$3 million, and capacitors for electronic application \$5 million.

While the primary products of the industry include capacitors, rectifying apparatus and other electrical equip-

ment, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 21 percent of the total industry shipments are represented by plants specializing in 36291, (Capacitors); 34 percent in 36292 (Rectifying apparatus); and 40 percent in 36293 (Other electrical equipment).

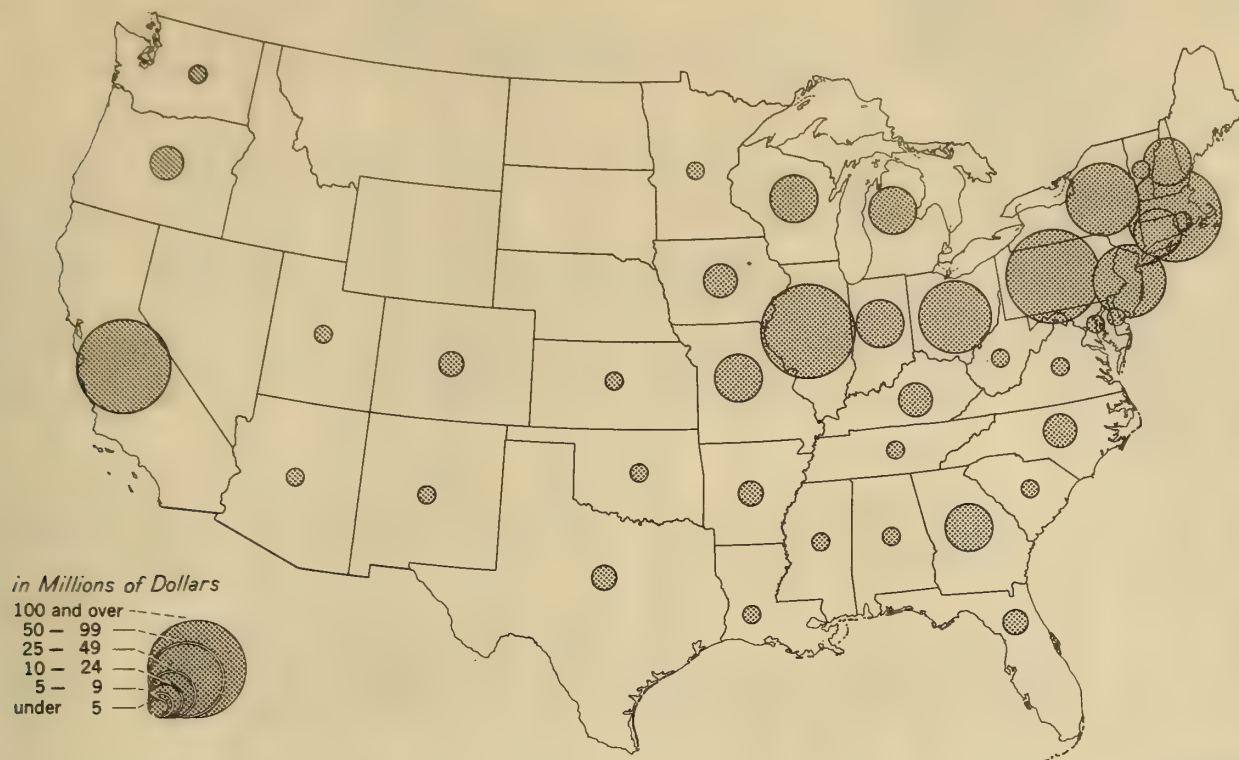
Industry 3629 shipments of electric industrial apparatus (primary products) in 1958 represented 73 percent (coverage ratio) of these products valued at \$213 million shipped by all industries. Since shipments data exclude all captive production, coverage ratios do not take into account the volume of electrical industrial apparatus, n.e.c., made for incorporation into other products at the same plant.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT: SIC 361

Value Added by Manufacture by State: 1958

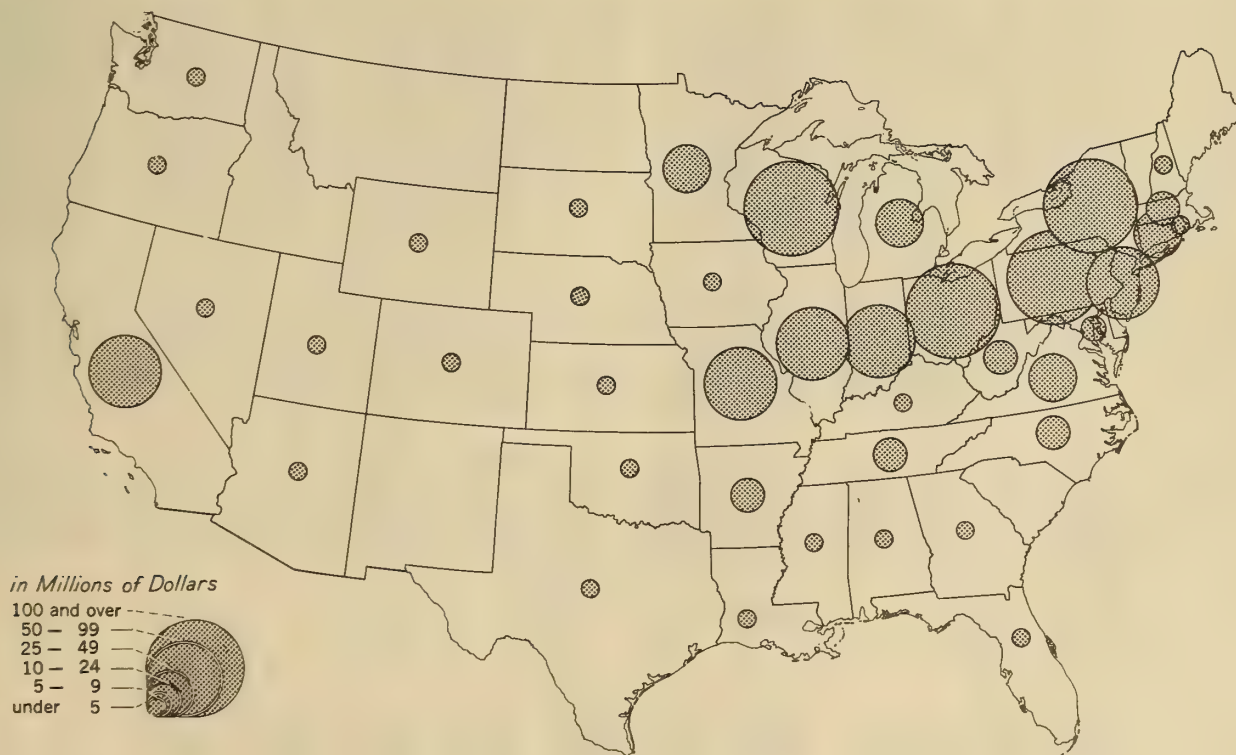


Includes Industries 3611, 3612, 3613 and 3619. See Table 2.

Bureau of the Census M-58-D361

## ELECTRICAL INDUSTRIAL APPARATUS: SIC 362

Value Added by Manufacture by State: 1958



Includes Industries 3621, 3622, 3623, 3624 and 3629. See Table 2.

Bureau of the Census M-58-D362

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup> (\$1,000)	Cost of materials <sup>4</sup> (\$1,000)	Value of shipments <sup>5</sup> (\$1,000)	Capital expenditures, new (\$1,000)	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3611 (old SIC 3613)	Electric measuring instruments:														
	1958.....	476	492	200	46,923	254,833	31,702	63,646	147,165	419,396	235,188	673,522	19,103	74	81
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	38,743	187,849	28,105	55,396	114,736	340,714	151,652	467,406	13,122	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	34,767	160,868	25,216	49,738	95,677	272,856	126,187	386,738	11,168	(NA)	(NA)
	1954.....	299	303	143	33,049	145,131	24,223	47,679	90,873	245,588	114,127	368,186	20,926	75	76
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	38,115	161,151	29,393	59,722	108,551	272,026	118,746	390,772	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	30,545	121,926	23,646	48,436	85,246	202,182	96,824	299,006	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	25,414	98,880	19,635	(NA)	69,527	153,705	79,391	233,096	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,143	65,544	14,263	28,642	43,357	113,314	52,530	165,844	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,180	53,490	11,403	22,726	34,748	87,612	36,013	123,625	(NA)	(NA)	(NA)
	1947.....	150	154	58	20,926	60,661	16,086	32,576	42,326	103,946	49,434	153,380	(NA)	(NA)	(NA)
	1939.....	(NA)	59	(NA)	9,318	15,223	6,976	(NA)	9,881	29,693	12,104	41,797	(NA)	(NA)	(NA)
	1937.....	(NA)	33	(NA)	(NA)	(NA)	6,935	(NA)	10,102	30,159	10,257	40,416	(NA)	(NA)	(NA)
3612 (old SIC 3615)	Transformers:														
	1958.....	157	175	82	34,601	186,361	22,578	45,112	108,592	364,212	256,870	642,267	11,353	94	93
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	48,075	242,191	34,165	69,964	156,732	499,091	357,542	861,960	15,997	89	94
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	46,725	228,908	34,579	69,767	154,283	451,468	365,312	785,126	24,429	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	40,066	190,907	28,493	59,412	124,764	380,977	295,897	664,751	17,131	(NA)	(NA)
	1954.....	152	164	89	40,956	186,491	29,234	58,414	121,715	394,276	277,814	688,447	22,852	87	94
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	45,358	202,003	33,111	69,013	136,278	410,783	301,207	711,990	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	37,374	165,643	26,623	55,266	110,766	357,832	253,355	610,968	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	37,335	152,257	27,170	(NA)	101,992	328,311	227,862	556,173	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	33,363	119,693	23,912	49,771	79,006	242,739	181,212	423,951	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	34,218	120,696	24,618	50,496	79,795	232,875	174,107	406,982	(NA)	(NA)	(NA)
	1947.....	134	144	85	36,635	107,978	28,160	58,568	78,525	195,102	162,085	356,968	(NA)	(NA)	(NA)
	1939.....	(NA)	47	(NA)	(NA)	(NA)	9,260	(NA)	14,064	38,898	32,711	71,609	(NA)	(NA)	(NA)
3613	Switchgear and switchboards: <sup>9</sup>														
	1958.....	339	402	203	52,871	283,152	36,263	72,769	170,453	555,044	375,977	962,558	17,820	80	90
3622	Industrial controls: <sup>9</sup>														
	1958.....	205	216	75	27,150	145,270	17,311	33,660	81,769	281,890	125,017	413,163	7,611	79	70
(old SIC 3616)	Electrical control apparatus: <sup>9</sup>														
	1958.....	(NA)	618	278	80,021	428,422	53,574	106,429	252,222	836,934	500,994	1,375,721	25,431	(NA)	(NA)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	91,465	475,370	62,811	126,654	291,826	972,549	540,089	1,509,511	35,618	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	93,393	471,511	66,482	136,594	298,665	947,136	528,282	1,416,044	36,835	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	79,383	377,826	56,078	113,437	235,697	711,250	394,488	1,082,307	31,703	(NA)	(NA)
	1954.....	389	452	246	79,314	361,398	56,183	111,372	228,245	687,308	396,238	1,096,715	31,478	89	91
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	88,393	399,015	64,038	133,277	258,917	775,972	444,938	1,220,910	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	77,685	335,353	55,947	119,929	221,536	714,300	373,888	1,088,188	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	75,044	306,808	54,806	(NA)	205,718	577,916	383,200	961,116	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	65,060	246,105	48,567	96,977	155,305	417,333	291,774	709,107	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	67,115	232,798	47,813	104,069	146,368	441,927	218,867	660,794	(NA)	(NA)	(NA)
	1947.....	(NA)	321	(NA)	67,461	204,081	49,690	(NA)	137,747	358,431	220,717	579,148	(NA)	(NA)	(NA)
	1939.....	(NA)	217	(NA)	(NA)	(NA)	14,747	(NA)	20,345	71,830	39,477	111,309	(NA)	(NA)	(NA)
3621 (old SIC 3614)	Motors and generators:														
	1958.....	317	378	237	93,541	488,854	64,795	127,799	303,785	813,124	545,523	1,392,573	28,311	83	85
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	117,268	592,251	83,318	163,120	380,583	1,030,290	687,356	1,705,431	(S)	84	88
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	122,875	601,048	91,421	180,797	403,014	1,026,739	722,083	1,706,006	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	113,256	522,257	83,444	166,648	351,013	858,160	593,879	1,397,038	(S)	(NA)	(NA)
	1954.....	266	309	217	112,003	494,556	82,420	161,343	334,271	817,601	597,352	1,453,713	38,310	82	84
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	138,315	621,933	106,418	(NA)	445,310	1,075,379	737,234	1,812,613	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	132,307	576,136	100,060	(NA)	409,032	998,277	717,425	1,715,463	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	122,423	495,012	93,091	(NA)	345,462	827,837	632,537	1,460,374	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	224	253	(NA)	125,300	368,461	100,966	(NA)	279,175	564,218	431,661	995,640	(NA)	81	92
	1939.....	(NA)	132	(NA)	(NA)	(NA)	44,423	(NA)	67,376	159,954	104,242	264,196	(NA)	(NA)	(NA)
3622	Industrial controls: <sup>10</sup>														
	1958.....	205	216	75	27,150	145,270	17,311	33,660	81,769	281,890	125,017	413,163	7,611	79	70
3623 (old SIC 3617)	Welding apparatus:														
	1958.....	123	135	70	9,895	60,761	6,392	12,746	33,048	112,709	135,219	247,739	4,330	93	92
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,054	67,922	6,614	14,517	38,150	135,732	159,133	291,419	(S)	94	94
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,187	67,796	6,999	15,488	39,745	140,904	153,869	284,864	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,912	53,941	6,042	13,095	31,180	108,650	119,180	222,423	(S)	(NA)	(NA)
	1954.....	111	119	62	8,186	45,719	5,484	11,400	26,427	77,494	99,557	179,945	4,713	90	92

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ial- ization ratio <sup>6</sup> (per- cent)	Cov- er- age <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3624 (old SIC 3612)	Welding apparatus--Continued														
	1947.....	103	108	60	7,265	29,151	5,139	10,185	17,709	57,310	46,402	103,712	(NA)	93	89
	1939.....	(NA)	47	(NA)	(NA)	(NA)	1,653	(NA)	2,482	10,313	10,339	20,652	(NA)	(NA)	(NA)
	Carbon and graphite products:														
	1958.....	34	46	35	8,904	45,628	6,620	13,015	30,551	102,483	58,990	154,925	11,068	97	95
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,908	49,877	7,801	15,295	35,363	110,974	69,891	179,155	16,051	96	96
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,999	47,479	7,989	16,699	35,887	109,955	76,059	178,388	10,693	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,701	38,184	6,939	13,954	27,765	88,175	55,716	148,333	(S)	(NA)	(NA)
	1954.....	43	53	31	8,297	35,976	6,352	12,600	24,190	64,579	48,712	111,718	6,492	98	94
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,479	40,324	8,705	(NA)	31,744	72,282	71,017	143,299	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,251	37,809	8,596	(NA)	30,198	73,325	62,301	135,626	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,576	28,776	7,051	(NA)	21,854	59,387	41,167	100,554	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,494	22,742	6,096	(NA)	16,895	43,772	30,479	74,251	(NA)	(NA)	(NA)
	1947.....	36	44	25	7,818	22,028	6,426	12,856	16,504	40,218	28,527	68,745	(NA)	95	95
3629 (old SIC 3619)	Electric industrial goods, nec:														
	1958.....	273	286	111	16,842	78,595	11,888	23,619	47,011	137,547	93,079	228,929	8,467	71	73
	Electrical industrial apparatus, nec:														
	1958 <sup>11</sup> .....	(NA)	334	136	17,592	80,744	12,488	24,837	47,959	139,101	95,372	231,959	8,565	(NA)	(NA)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,618	91,013	16,787	32,831	54,148	163,357	119,267	282,809	9,874	82	60
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,450	82,671	15,883	31,561	51,717	165,410	118,305	275,354	8,335	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,996	64,582	13,420	26,096	42,314	123,072	94,044	212,848	6,267	(NA)	(NA)
	1954.....	223	235	97	14,996	56,361	11,293	21,988	36,394	108,637	73,594	183,250	3,717	81	64
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,863	44,185	9,244	18,326	30,267	83,371	51,294	134,665	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,660	37,577	6,780	13,905	22,066	69,589	43,747	113,336	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,008	35,519	7,937	16,195	23,515	64,572	45,155	109,727	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,043	29,458	8,263	16,976	21,569	48,803	34,222	83,025	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	191	194	(NA)	10,901	28,481	8,779	18,170	20,250	41,163	33,193	74,356	2,465	(NA)	(NA)
	1939.....	(NA)	39	(NA)	(NA)	(NA)	907	(NA)	1,181	3,669	2,555	6,224	(NA)	(NA)	(NA)

NA Not available. <sup>11</sup>Revised.<sup>8</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production Workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3611	248,478	3622	(NA)
3612	410,245	3623	78,645
3613	(NA)	3624	62,873
3621	844,128	3629	(NA)

<sup>4</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3611	222,002	110,978	3622	117,881	(NA)
3612	255,314	275,841	3623	125,889	90,200
3613	350,040	(NA)	3624	58,743	48,136
3621	519,305	544,949	3629	90,500	(NA)

Footnotes continued on next page.



## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for Table 1--MC-36A

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3611	654,686	359,456	3622	404,435	(NA)
3612	640,139	686,087	3623	234,666	168,846
3613	932,541	(NA)	3624	154,452	111,010
3621	1,359,716	1,389,078	3629	225,692	(NA)

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in an out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1956 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>The two industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

<sup>10</sup>For data for previous years, see Industry 3613 above.

<sup>11</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text.

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3611	Electric measuring instruments, total.	492	200	46,923	254,833	31,702	63,646	147,165	419,396	673,522	19,103	33,049	248,478	20,926
	Northeast.....	232	97	19,608	104,385	12,615	24,862	54,717	160,720	266,551	4,835	(3)	(3)	(3)
	Massachusetts..	25	8	5,240	31,054	2,826	5,719	13,905	49,541	77,257	1,706	5,938	47,846	5,490
	Connecticut....	15	6	518	2,299	382	736	1,459	4,198	6,449	(2)	(3)	(3)	(3)
	New York.....	81	34	4,060	20,817	2,713	5,397	11,646	31,556	55,753	955	2,889	21,798	480
	Pennsylvania...	31	16	1,068	4,869	723	1,360	2,568	7,834	13,780	(2)	1,289	6,487	900
	East North													
	Central.....	92	35	10,821	57,718	7,756	15,442	36,370	86,499	142,397	2,567	7,762	56,421	6,646
	Ohio.....	29	14	2,359	10,817	1,585	3,050	5,771	17,140	29,299	569	1,600	9,195	1,429
	Illinois.....	32	10	4,638	25,785	3,086	6,043	14,776	39,032	60,885	1,079	4,711	33,194	4,039
	Wisconsin.....	8	4	531	2,381	420	871	1,698	3,694	7,435	(2)	(3)	(3)	(3)
	West North													
	Central.....	20	6	470	1,932	356	668	1,110	5,231	8,743	(2)	331	1,614	202
	South.....	30	11	2,166	9,870	1,212	2,423	4,643	22,294	32,974	2,265	712	2,500	(D)
	Florida.....	6	4	605	2,374	345	631	1,425	4,790	8,521	(D)	(D)	(D)	(D)
	West.....	118	51	13,858	80,928	9,763	20,251	50,325	144,652	222,857	9,205	3,541	29,165	(D)
	California.....	104	45	11,354	66,923	7,870	16,495	41,172	113,597	174,879	5,685	3,010	22,620	267
3612	Transformers, total	175	82	34,601	186,361	22,578	45,112	108,592	136,212	164,267	11,353	40,956	410,245	36,635
	Northeast.....	73	32	18,973	106,673	11,657	23,463	58,683	202,533	342,169	6,428	24,179	260,281	24,093
	Connecticut....	6	5	206	698	165	323	470	1,367	2,918	(2)	298	1,495	694
	New York.....	19	6	843	3,644	604	1,174	2,227	5,587	10,850	(2)	995	4,182	1,969
	Pennsylvania...	10	8	9,941	57,762	6,239	12,512	33,564	117,950	197,881	3,742	12,195	153,071	10,224
	North Central...	56	31	11,759	60,234	8,069	15,814	37,583	109,416	207,459	3,289	12,227	101,670	(D)
	Ohio.....	9	5	1,091	5,478	803	1,553	3,517	16,085	26,576	(2)	1,101	13,945	1,629
	Illinois.....	17	13	4,409	19,796	3,260	6,290	12,524	36,744	74,627	1,103	4,326	27,539	3,715
	Wisconsin.....	9	4	1,348	8,636	857	1,781	4,794	13,354	25,144	743	1,958	18,067	1,086
	South.....	19	11	3,123	15,321	2,298	4,660	9,496	139,098	172,119	1,226	1,232	8,242	(D)
	Texas.....	4	1	207	746	172	368	524	1,347	2,630	(2)	(D)	(D)	(D)
	West.....	27	8	746	4,131	554	1,175	2,830	13,165	20,520	(2)	(3)	(3)	(3)
	California.....	22	7	674	3,730	507	1,076	2,599	12,226	18,880	(2)	(D)	(D)	1,560
3613	Switchgear and switchboards, total.....	402	203	52,871	283,152	36,263	72,769	170,453	155,044	962,558	17,820	(4)	(4)	(4)
	New England.....	39	22	5,296	25,590	3,460	6,779	14,345	43,316	82,189	3,219	(4)	(4)	(4)
	Connecticut....	15	11	2,405	12,202	1,500	3,031	6,245	23,356	40,500	606	(4)	(4)	(4)
	Middle Atlantic..	95	53	22,171	124,370	14,550	28,765	76,889	260,120	444,307	7,017	(4)	(4)	(4)
	New York.....	44	22	2,709	12,891	1,981	3,855	8,874	25,653	46,395	223	(4)	(4)	(4)
	New Jersey.....	28	16	4,520	23,967	3,223	6,153	15,537	50,206	72,252	1,544	(4)	(4)	(4)
	Pennsylvania...	23	15	14,942	87,512	9,346	18,757	52,478	184,261	325,660	5,250	(4)	(4)	(4)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital ex- penditures, new (\$1,000)	All em- ployees, number	Value added by manufac- ture, unadjusted (\$1,000)	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3613	Switchgear and switchboards--Con. East North													
	Central.....	120	58	13,537	75,234	9,525	19,430	43,967	132,269	223,433	2,902	(4)	(4)	
	Ohio.....	23	14	2,324	12,006	1,764	3,602	8,332	20,441	43,631	594	(4)	(4)	
	Indiana.....	10	4	1,014	4,325	800	1,601	2,951	6,988	9,333	(2)	(4)	(4)	
	Illinois.....	56	28	5,852	29,802	4,304	8,664	18,090	55,814	86,443	1,011	(4)	(4)	
	Michigan.....	25	9	2,873	17,748	1,665	3,385	9,085	29,078	52,573	(2)	(4)	(4)	
	Wisconsin.....	6	3	1,474	11,353	992	2,178	5,509	19,948	31,453	950	(4)	(4)	
	West North													
	Central.....	22	10	3,448	15,550	2,852	5,977	10,464	31,479	50,171	(2)	(4)	(4)	
	South.....	48	24	3,832	17,407	2,710	5,335	9,736	39,815	71,761	2,802	(4)	(4)	
	Texas.....	14	7	632	3,271	422	826	1,895	7,269	16,403	(2)	(4)	(4)	
	West.....	78	36	4,587	25,001	3,166	6,483	15,052	48,045	90,697	1,542	(4)	(4)	
	Oregon.....	6	3	119	952	71	140	369	1,486	4,325	(2)	(4)	(4)	
	California.....	59	29	4,207	22,632	2,922	5,984	13,800	41,846	77,561	1,433	(4)	(4)	
3621	Motors and generators, total.	378	237	93,541	488,854	64,795	127,799	303,785	813,124	1,392,573	28,311	112,003	844,128	125,300
	New England.....	26	12	3,209	15,401	2,117	4,146	8,654	25,089	51,081	698	7,151	56,495	9,188
	Connecticut....	14	6	2,212	11,541	1,305	2,564	6,004	19,048	41,796	(2)	2,198	18,687	(D)
	Middle Atlantic..	97	58	30,395	167,286	19,462	39,343	97,409	291,229	507,213	9,604	36,120	297,834	41,310
	New York.....	48	27	18,472	104,585	11,503	23,055	60,011	181,859	326,046	5,881	20,238	141,152	13,357
	New Jersey.....	24	13	5,567	29,362	3,791	7,712	18,076	41,701	73,388	2,304	7,579	50,057	5,868
	Pennsylvania...	25	18	6,356	33,339	4,168	8,576	19,322	67,669	107,779	1,419	8,302	106,624	22,085
	East North													
	Central.....	141	102	43,814	226,814	31,454	61,256	146,219	364,449	612,981	11,776	53,466	386,507	60,148
	Ohio.....	57	44	23,314	122,303	16,993	32,982	82,584	205,689	341,261	5,408	30,434	221,512	35,781
	Indiana.....	16	13	7,358	39,113	5,148	10,008	24,092	68,936	107,772	1,591	9,295	71,527	10,254
	Illinois.....	29	18	3,226	14,642	2,523	4,951	10,277	27,505	44,225	1,698	4,036	29,327	3,316
	Michigan.....	17	11	2,607	11,367	2,000	3,787	7,306	17,291	30,248	762	2,490	15,406	4,051
	Wisconsin.....	22	16	7,309	39,389	4,790	9,528	21,960	45,028	89,475	2,317	7,210	48,734	6,746
	West North													
	Central.....	23	19	8,970	46,349	6,717	12,972	30,770	71,078	119,579	2,261	9,815	64,235	10,742
	Minnesota.....	6	6	2,129	12,530	1,485	3,154	7,701	21,946	35,397	539	2,011	16,751	1,915
	South Atlantic...	14	7	1,125	5,330	800	1,670	3,108	8,192	13,105	(2)	(D)	(D)	(D)
	Virginia.....	3	3	196	828	155	303	490	1,142	1,619	(2)	(3)	(3)	(3)
	East South													
	Central.....	7	5	539	1,941	453	900	1,382	4,183	8,430	1,773	(3)	(3)	(3)
	West South													
	Central.....	10	4	1,143	3,987	1,023	2,005	3,299	12,500	19,872	(2)	(3)	(3)	(3)
	Arkansas.....	5	4	1,124	3,905	1,008	1,981	3,237	12,331	19,630	(2)	(3)	(3)	(3)
	Mountain.....	6	3	347	1,104	243	523	855	1,588	2,801	(D)	(D)	(D)	(3)
	Pacific.....	54	27	3,999	20,642	2,526	4,984	12,089	34,816	57,511	(D)	(D)	(D)	2,460
3622	Industrial controls, total...	216	75	27,150	145,270	17,311	33,660	81,769	281,890	413,163	7,611	(4)	(4)	(4)
	New England.....	21	7	1,352	7,044	813	1,674	3,317	12,754	19,448	(2)	(4)	(4)	(4)
	Connecticut....	11	4	637	3,425	442	955	1,839	6,453	10,734	(2)	(4)	(4)	(4)
	Middle Atlantic..	44	13	1,980	10,123	1,331	2,500	6,038	14,514	21,330	507	(4)	(4)	(4)
	New Jersey.....	14	2	177	891	123	237	558	1,191	2,449	(2)	(4)	(4)	(4)
	East North													
	Central.....	87	31	18,656	101,363	12,293	23,718	59,941	194,282	273,155	5,684	(4)	(4)	(4)
	Ohio.....	19	8	2,508	14,232	1,412	2,760	7,008	23,432	40,349	634	(4)	(4)	(4)
	Illinois.....	29	8	2,567	13,241	1,545	2,917	6,006	30,969	48,090	(2)	(4)	(4)	(4)
	Wisconsin.....	15	9	12,143	66,961	8,364	16,050	43,015	131,010	167,785	4,517	(4)	(4)	(4)
	West North													
	Central.....	8	6	598	2,961	434	851	1,857	6,295	10,519	(2)	(4)	(4)	(4)
	South.....	21	8	3,626	18,762	1,844	3,786	7,956	43,551	67,706	691	(4)	(4)	(4)
	Mountain.....	4	...	41	173	29	46	102	446	769	(2)	(4)	(4)	(4)
	Pacific.....	31	10	897	4,844	567	1,085	2,558	10,048	20,236	(2)	(4)	(4)	(4)
	California.....	23	8	753	4,014	464	875	2,017	8,532	16,990	(2)	(4)	(4)	(4)
3623	Welding apparatus, total.....	135	70	9,895	60,761	6,392	12,746	33,048	112,709	247,739	4,330	8,186	78,645	7,265
	New England.....	8	3	221	1,283	127	238	538	1,934	3,270	(2)	139	1,345	362
	Middle Atlantic..	26	14	1,300	6,883	729	1,432	3,343	16,792	41,052	803	1,062	7,607	528
	New York.....	10	4	347	1,681	194	375	798	3,684	7,659	(2)	100	664	152
	New Jersey.....	6	1	116	610	62	116	284	1,896	3,649	(2)	147	1,329	82
	Pennsylvania...	10	9	837	4,592	473	941	2,261	11,212	29,744	664	815	5,612	294
	East North													
	Central.....	63	37	6,506	43,377	4,212	8,537	23,870	76,953	161,026	2,468	5,685	59,714	5,343
	Ohio.....	13	7	3,168	22,158	2,001	3,900	11,991	42,459	88,861	1,654	2,593	30,163	2,891
	Illinois.....	10	3	718	4,747	356	806	1,976	6,635	14,708	(2)	(D)	(D)	684
	Michigan.....	32	20	1,742	11,380	1,239	2,626	6,936	18,313	33,551	(2)	1,763	18,319	1,268
	Wisconsin.....	8	7	878	5,092	616	1,205	2,967	9,546	23,906	(2)	557	5,662	(D)

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3623	Welding apparatus-- Con. West North Central.....	15	6	529	2,739	331	650	1,333	4,698	10,935	537	433	3,276	403
	South.....	5	3	530	2,433	411	724	1,624	4,882	16,080	( <sup>2</sup> )	(D)	(D)	(D)
	West.....	18	7	809	4,046	582	1,165	2,340	7,450	15,376	( <sup>2</sup> )	(D)	(D)	(D)
3624	Carbon and graphite products, total.....	46	35	8,904	45,628	6,620	13,015	30,551	102,483	154,925	11,068	8,297	62,873	7,818
	Middle Atlantic..	22	16	4,744	24,393	3,433	6,759	15,333	44,036	70,083	5,063	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pennsylvania...	9	7	2,356	10,633	1,750	3,453	6,472	14,068	20,882	1,995	2,063	12,561	2,289
	North Central													
	South and West..	24	19	4,160	21,235	3,187	6,256	15,218	58,447	84,842	6,005	4,032	30,501	3,113
	Ohio.....	9	9	1,733	9,034	1,251	2,411	5,864	19,515	31,229	1,341	1,960	15,205	1,834
3629	Electric industrial goods, nec, total.	286	111	16,842	78,595	11,888	23,619	47,011	137,547	228,929	8,467	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New England.....	24	10	1,592	6,441	1,291	2,396	4,233	9,396	15,605	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Massachusetts..	9	4	663	2,942	487	901	1,708	4,009	7,703	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Middle Atlantic..	80	29	4,414	21,654	3,118	6,131	13,652	38,451	68,445	938	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New York.....	41	13	2,239	10,825	1,474	2,929	6,156	17,906	34,990	556	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	West North Central.....	10	5	602	2,718	334	654	1,256	3,728	6,890	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	All other													
	Divisions.....	172	67	10,234	47,782	7,145	14,438	27,870	85,972	137,989	7,019	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Ohio.....	21	12	1,938	9,794	1,422	2,684	6,007	18,987	31,348	1,282	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Michigan.....	11	2	211	881	180	352	653	1,082	2,961	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )

Note: Detailed figures may not add to the totals because of independent rounding. <sup>r</sup>Revised.<sup>D</sup> Withheld to avoid disclosing figures for individual companies.<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3611, Electric Measuring Instruments: Northeast—New Hampshire, 5 (2,165); Rhode Island, 3 (20-99); New Jersey, 72 (6,489); East North Central—Indiana, 10 (3,070); Michigan, 13 (100-249); West North Central—Minnesota, 6 (20-99); Iowa, 7 (100-249); Missouri, 6 (100-249); Kansas, 1 (1-19); South—Maryland, 5 (250-499); North Carolina, 2 (500-999); South Carolina, 1 (1-19); Georgia, 1 (20-99); Kentucky, 1 (1-19); Tennessee, 1 (1-19); Alabama, 2 (1-19); Mississippi, 2 (100-249); Louisiana, 1 (1-19); Texas, 8 (20-99); West—Colorado, 3 (500-999); Arizona, 3 (1-19); Utah, 1 (1-19); Washington, 3 (20-99); Oregon, 4 (100-2499).

SIC 3612, Transformers: Northeast—New Hampshire, 1 (1-19); Massachusetts, 9 (6,414); Rhode Island, 1 (1-19); New Jersey, 27 (1,559); North Central—Indiana, 5 (2,107); Michigan, 9 (250-499); Minnesota, 1 (1-19); Missouri, 6 (2,310); South—Delaware, 1 (1-19); Maryland, 1 (1-19); Virginia, 1 (1-19); West Virginia, 1 (20-99); North Carolina, 2 (250-499); Georgia, 3 (1,351); Florida, 1 (20-99); Kentucky, 1 (100-249); Alabama, 1 (250-499); Mississippi, 1 (100-249); Arkansas, 1 (250-499); Oklahoma, 1 (1-19); West—Colorado, 1 (1-19); Washington, 2 (1-19); Oregon, 2 (20-99).

SIC 3613, Switchgear and Switchboards: New England—New Hampshire, 2 (250-499); Vermont, 1 (250-499); Massachusetts, 20 (1,887); Rhode Island, 1 (100-249); West North Central—Minnesota, 9 (250-499); Iowa, 4 (500-999); Missouri, 7 (2,486); Kansas, 2 (1-19); South—Maryland, 7 (500-999); Virginia, 1 (1-19); West Virginia, 1 (1-19); North Carolina, 2 (100-249); Georgia, 9 (1,274); Florida, 2 (20-99); Kentucky, 4 (500-999); Tennessee, 1 (1-19); Alabama, 3 (20-99); Mississippi, 1 (1-19); Arkansas, 1 (20-99); Louisiana, 1 (1-19); Oklahoma, 1 (20-99); West—Colorado, 4 (20-99); New Mexico, 1 (1-19); Utah, 2 (20-99); Washington, 6 (100-249).

SIC 3621, Motors and Generators: New England—New Hampshire, 2 (250-499); Massachusetts, 9 (500-999); Rhode Island, 1 (1-19); West North Central—Iowa, 4 (250-499); Missouri, 12 (6,501); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (100-249); District of Columbia, 1 (1-19); West Virginia, 2 (20-99); North Carolina, 1 (500-999); Georgia, 2 (20-99); Florida, 4 (20-99); East South Central—Kentucky, 2 (100-249); Tennessee, 4 (250-499); Alabama, 1 (1-19); West South Central—Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 3 (1-19); Mountain—Colorado, 5 (250-499); Arizona, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 2 (1-19); California, 51 (3,989).

SIC 3622, Industrial Controls: New England—Massachusetts, 9 (500-999); Rhode Island, 1 (1-19); Middle Atlantic—New York, 22 (1,366); Pennsylvania, 8 (250-499); East North Central—Indiana, 3 (1,047); Michigan, 21 (250-499); West North Central—Minnesota, 6 (250-499); Missouri, 2 (100-249); South—Maryland, 2 (100-249); District of Columbia, 2 (1-19); Virginia, 2 (250-4999); West Virginia, 1 (1-19); North Carolina, 1 (1-19); Florida, 3 (20-99); Kentucky, 2 (100-249); Alabama, 1 (1-19); Mississippi, 1 (1-19); Oklahoma, 2 (250-499); Texas, 4 (20-99); Mountain—Colorado, 1 (1-19); Utah, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 4 (100-249); Oregon, 4 (1-19).

SIC 3623, Welding Apparatus: New England—Massachusetts, 4 (100-249); Connecticut, 4 (20-99); West North Central—Minnesota, 4 (250-499); Iowa, 2 (20-99); Missouri, 6 (100-249); Nebraska, 1 (1-19); Kansas, 2 (20-99); South—Maryland, 2 (250-499); West Virginia, 1 (1-19); Alabama, 1 (20-99); Louisiana, 1 (1-19); West—Colorado, 2 (250-499); Washington, 1 (1-19); Oregon, 1 (1-19); California, 14 (250-499).

SIC 3624, Carbon and Graphite Products: Middle Atlantic—New York, 11 (100-2499); New Jersey, 2 (100-249); North Central, South and West—Illinois, 2 (100-249); Michigan, 1 (20-99); Wisconsin, 3 (100-249); West Virginia, 1 (500-999); North Carolina, 1 (500-999); Tennessee, 2 (500-999); Alabama, 1 (1-19); California, 4 (20-99).

SIC 3629, Electric Industrial Goods, NEC: New England—New Hampshire, 1 (1-19); Rhode Island, 3 (20-99); Connecticut, 11 (500-999); Middle Atlantic—New Jersey, 29 (100-2499); Pennsylvania, 10 (1,162); East North Central—Indiana, 14 (1,623); Illinois, 49 (2500-4999); Wisconsin, 2 (100-249); West North Central—Minnesota, 4 (100-249); Missouri, 4 (250-499); South Dakota, 1 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 2 (1-19); Virginia, 1 (500-999); West Virginia, 1 (100-249); Georgia, 2 (1-19); Florida, 1 (1-19); East South Central—Kentucky, 3 (20-99); Tennessee, 2 (20-99); Alabama, 1 (1-19); Mississippi, 1 (20-99); West South Central—Oklahoma, 1 (1-19); Texas, 4 (20-99); Mountain—Wyoming, 1 (1-19); Colorado, 2 (20-99); Arizona, 2 (1-19); Pacific—Washington, 1 (20-99); California, 50 (1,266).

<sup>2</sup> Less than \$500 thousand.<sup>3</sup> This division, region, or State was not shown as a separate line in table 2 in the 1954 reports for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup> Industry 3613, Switchgear and Switchboards, and Industry 3622 Industrial Controls, were a single industry (old SIC 3616) in 1954 and 1947. See text and table 2A.<sup>5</sup> Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 2A and text of this report).



Table 2A.--General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3613, 3622	Switchgear and switchboard apparatus and industrial controls, total <sup>2</sup> ..	618	278	80,021	428,422	53,574	106,429	252,222	836,934	1,375,721	25,431	79,314	700,477	67,461
	New England.....	60	29	6,648	32,634	4,273	8,453	17,662	56,070	101,637	3,445	7,117	48,559	5,208
	Connecticut.....	26	10	3,042	15,627	1,942	3,986	8,084	29,809	51,234	748	3,354	24,340	2,362
	Middle Atlantic..	139	66	24,151	134,493	15,881	31,265	82,927	274,634	465,637	7,524	30,194	308,222	29,528
	New York.....	66	28	4,075	19,675	2,927	5,623	13,050	35,812	60,361	612	9,205	67,644	11,832
	New Jersey.....	42	18	4,697	24,858	3,346	6,390	16,095	51,397	74,701	1,605	3,135	27,386	1,774
	Pennsylvania...	31	20	15,379	89,960	9,608	19,252	53,782	187,425	330,575	5,307	17,854	213,191	15,922
	East North Central.....	207	89	32,193	176,597	21,818	43,148	103,908	326,551	496,588	8,586	30,475	256,667	25,533
	Ohio.....	42	22	4,832	26,238	3,176	6,362	15,340	43,873	83,980	1,228	4,437	38,462	3,161
	Illinois.....	85	36	8,419	43,043	4,849	11,581	24,096	86,783	134,533	1,454	8,703	66,290	5,583
	Wisconsin.....	21	12	13,617	78,314	9,356	18,228	48,524	150,958	199,238	5,467	13,254	129,011	13,107
	West North Central.....	30	16	4,046	18,511	3,286	6,828	12,321	37,774	60,690	632	3,595	25,915	2,546
	South.....	69	32	7,458	36,169	4,554	9,121	17,692	83,366	139,467	3,493	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West.....	113	46	15,525	30,018	3,762	7,614	17,712	58,539	111,701	1,751	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	82	37	14,960	26,646	3,386	6,859	15,817	50,378	94,551	1,576	4,247	34,059	2,119
3629	Electric industrial goods, nec, total <sup>2</sup> .....	334	136	17,592	80,744	12,488	24,837	47,959	139,101	231,959	8,565	14,996	109,656	10,901
	Northeast.....	130	53	6,146	27,100	4,557	8,864	16,896	42,424	76,894	1,205	8,119	65,410	6,110
	Massachusetts..	13	7	943	3,895	704	1,327	2,310	5,412	9,901	( <sup>4</sup> )	2,447	16,244	1,126
	New York.....	48	19	2,629	12,909	1,739	3,449	7,243	21,509	40,655	582	2,402	23,105	1,116
	North Central South and West..	204	83	11,446	53,644	7,931	15,973	31,063	96,677	155,065	7,360	6,877	44,244	4,791
	Ohio.....	24	14	2,038	10,311	1,491	2,829	6,349	20,752	33,776	1,312	1,189	9,284	554

Note: Detailed figures may not add to the totals because of independent rounding. \*Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3613, Switchgear and Switchboard Apparatus, and SIC 3622, Industrial Controls: New England—New Hampshire, 2 (250-499); Vermont, 1 (250-499); Massachusetts, 29 (2,592); Rhode Island, 2 (250-499); East North Central—Indiana, 13 (1,061); Michigan, 46 (3,264); West North Central—Minnesota, 15 (500-999); Iowa, 4 (500-999); Missouri, 9 (2,667); Kansas, 2 (1-19); South—Maryland, 9 (500-999); District of Columbia, 2 (1-19); Virginia, 3 (2500-4999); West Virginia, 2 (1-19); North Carolina, 3 (100-249); Georgia, 9 (1,274); Florida, 5 (20-99); Kentucky, 6 (1,010); Tennessee, 1 (1-19); Alabama, 4 (20-99); Mississippi, 2 (1-19); Arkansas, 1 (20-99); Louisiana, 1 (1-19); Oklahoma, 3 (250-499); Texas, 18 (500-999); West—Colorado, 5 (20-99); New Mexico, 1 (1-19); Utah, 3 (20-99); Nevada, 1 (1-19); Washington, 10 (1,079); Oregon, 3 (500-999).

SIC 3629, Electric Industrial Goods, NEC: Northeast—New Hampshire, 1 (1-19); Rhode Island, 3 (20-99); Connecticut, 13 (500-999); New Jersey, 40 (1000-2499); Pennsylvania, 12 (100-249); North Central, South and West—Indiana, 15 (1,642); Illinois, 54 (2500-4999); Michigan, 11 (100-249); Wisconsin, 2 (100-249); Minnesota, 4 (100-249); Iowa, 1 (1-19); Missouri, 6 (500-999); South Dakota, 1 (20-99); Nebraska, 1 (1-19); Maryland, 2 (1-19); Virginia, 1 (500-999); West Virginia, 1 (100-249); Georgia, 2 (1-19); Florida, 1 (1-19); Kentucky, 4 (20-99); Tennessee, 2 (20-99); Alabama, 1 (1-19); Mississippi, 1 (20-99); Oklahoma, 1 (1-19); Texas, 5 (20-99); Wyoming, 1 (1-19); Colorado, 2 (20-99); Arizona, 3 (20-99); Washington, 2 (20-99); California, 56 (1,392).

<sup>2</sup>See footnote 9 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.<sup>3</sup>This division, region, or State was not shown as a separate line in table 2 in the 1954 reports for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Less than \$500 thousand.<sup>5</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1954 and 1947 data are on the old SIC definition of the industry. The details of the revision are described in the text.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

(For explanation of line captions, see Introduction)

Item	Electric measuring instrument (SIC 3611)	Transformers (SIC 3612)	Switch gear and switch boards (SIC 3613)	Motors and generators (SIC 3621)	Industrial controls (SIC 3622)	Welding apparatus (SIC 3623)	Carbon and graphite products (SIC 3624)	Electric industrial goods, NEC (SIC 3629)
Primary product specialization ratio <sup>1</sup> .....	74	94	80	83	79	93	97	71
Coverage ratio <sup>2</sup> .....	81	93	90	85	70	92	95	73
Number of establishments, total.....	492	175	402	378	216	135	46	286
With 1-19 employees.....	292	93	199	141	141	65	11	175
With 20-99 employees.....	116	43	105	103	41	40	15	77
With 100 employees or more.....	84	39	98	134	34	30	20	34
Proprietors and working partners.....Number..	119	44	68	71	51	40	4	90
All employees:								
Number (average for the year).....	46,923	34,601	52,871	93,541	27,150	9,895	8,904	16,842
Payroll.....\$1,000..	254,833	186,361	283,152	488,854	145,270	60,761	45,628	78,595
Production workers:								
Number (average for the year).....	31,702	22,578	36,263	64,795	17,311	6,392	6,620	11,888
March.....	31,177	23,377	36,388	66,355	18,312	6,495	6,965	11,961
May.....	30,716	21,782	35,437	62,914	17,366	6,655	6,541	11,245
August.....	31,799	22,230	36,185	61,786	16,251	6,401	6,360	11,749
November.....	33,259	22,985	37,082	68,111	17,448	6,042	6,603	12,725
Man-hours.....1,000..	63,646	45,112	72,769	127,799	33,660	12,746	13,015	23,619
January-March.....do....	15,541	12,003	18,342	33,631	9,177	3,201	3,536	5,953
April-June.....do....	15,383	11,212	17,808	31,586	8,364	3,294	3,201	5,751
July-September.....do....	15,465	10,637	17,417	29,397	7,524	3,136	2,988	5,464
October-December.....do....	16,990	11,201	19,073	33,052	8,498	3,087	3,289	6,340
Wages.....\$1,000..	147,165	108,592	170,453	303,785	81,769	33,048	30,551	47,011
Cost of materials, etc., total.....do....	235,188	256,870	375,977	545,523	125,017	135,219	58,990	93,079
Materials, parts, containers, and supplies consumed.....do....	208,678	246,093	337,713	500,425	113,401	122,036	49,441	86,496
Cost of resales.....do....	13,186	1,556	25,937	26,218	7,136	9,330	247	2,579
Fuels consumed.....do....	1,039	3,237	1,848	4,491	1,073	830	2,678	831
Electricity purchased.....do....	2,737	3,531	3,273	8,885	2,222	1,158	5,826	1,839
Contract work.....do....	<sup>r</sup> 9,548	<sup>r</sup> 2,453	7,206	<sup>r</sup> 5,504	1,185	1,865	<sup>r</sup> 798	<sup>r</sup> 1,334
Value of shipments (including resales), total.....do....	673,522	<sup>r</sup> 642,267	962,558	1,392,573	413,163	247,739	154,925	228,929
Value of resales.....do....	18,836	2,363	30,017	32,857	8,828	13,073	473	3,237
Value added by manufacture, adjusted.....do....	419,396	<sup>r</sup> 364,212	<sup>r</sup> 555,044	813,124	281,890	112,709	102,483	137,547
Manufacturers' inventories:								
Beginning of year, total.....do....	173,899	<sup>r</sup> 145,564	<sup>r</sup> 202,285	320,771	80,496	54,889	39,758	44,896
Finished products.....do....	40,480	48,771	<sup>r</sup> 56,934	81,702	24,356	18,544	6,120	8,789
Work-in-process.....do....	84,118	<sup>r</sup> 48,911	86,690	143,295	30,720	12,391	24,498	14,660
Materials, supplies, fuel, etc.....do....	49,301	47,882	58,661	95,774	25,420	23,954	9,140	21,447
End of year, total.....do....	153,159	115,768	164,374	272,452	70,118	51,729	46,864	45,510
Finished products.....do....	33,423	37,399	40,662	70,255	21,721	18,891	7,188	9,370
Work-in-process.....do....	72,237	39,098	71,425	120,816	27,099	12,233	29,978	15,776
Materials, supplies, fuel, etc.....do....	47,499	39,271	52,287	81,382	21,298	20,605	9,698	20,364
Expenditures for plant and equipment, total.....do....	19,558	11,712	18,851	32,567	7,858	4,496	11,108	22,259
New, total.....do....	19,103	11,353	17,820	28,311	7,611	4,330	11,068	8,467
New structures and additions to plant.....do....	9,091	1,514	4,154	4,800	3,095	1,422	4,926	1,570
New machinery and equipment.....do....	10,012	9,839	13,666	23,511	4,516	2,908	6,142	6,897
Used plant and equipment.....do....	455	374	1,031	4,256	246	166	40	13,792

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3611	Electric measuring instruments:											
	Number of establishments.....	492	141	79	72	79	37	46	18	10	8	2
	All employees:											
	Number.....	46,923	291	552	1,018	2,618	2,626	6,872	6,384	6,775	19,787	(D)
	Payroll.....\$1,000..	254,833	1,257	2,551	4,856	13,139	13,583	34,168	32,124	38,453	114,702	(D)
	Value added, adjusted..do....	419,396	2,459	4,468	8,470	24,069	24,316	51,420	49,386	65,176	189,632	(D)
	Value of shipments.....do....	673,522	4,276	7,334	12,886	41,062	36,629	95,936	84,631	98,244	292,524	(D)
	Capital expend., new...do....	19,103	( <sup>1</sup> )	523	( <sup>1</sup> )	937	757	1,864	3,358	2,206	8,858	(D)
3612	Transformers:											
	Number of establishments.....	175	34	29	30	26	17	16	7	5	8	3
	All employees:											
	Number.....	34,601	92	208	415	783	1,204	2,289	2,632	4,238	22,740	(D)
	Payroll.....\$1,000..	186,361	382	846	1,663	3,201	5,669	10,656	13,214	17,888	132,842	(D)
	Value added, adjusted..do....	r364,212	660	1,955	2,728	5,708	10,702	r24,978	26,956	38,491	252,034	(D)
	Value of shipments.....do....	r642,267	1,357	3,170	5,067	11,018	19,041	r44,394	51,198	73,483	433,484	(D)
	Capital expend., new...do....	11,353	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	826	1,190	800	7,489	(D)
3613	Switchgear and switchboards:											
	Number of establishments.....	402	97	45	57	67	38	38	38	11	9	2
	All employees:											
	Number.....	52,871	186	297	824	2,098	2,537	5,855	13,628	7,890	19,556	(D)
	Payroll.....\$1,000..	283,152	817	1,418	4,526	11,214	12,600	28,758	67,633	44,391	111,795	(D)
	Value added, adjusted..do....	r555,044	1,651	2,084	7,331	21,207	24,759	60,773	130,856	77,771	r228,652	(D)
	Value of shipments.....do....	962,558	2,933	5,125	14,563	42,259	51,919	104,399	225,339	128,220	387,801	(D)
	Capital expend., new...do....	17,820	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,578	6,678	1,214	6,199	(D)
3621	Motors and generators:											
	Number of establishments.....	378	76	37	28	58	45	52	33	24	21	4
	All employees:											
	Number.....	93,541	151	238	391	1,954	3,109	8,596	11,459	16,515	34,322	16,806
	Payroll.....\$1,000..	488,854	582	985	1,744	9,216	14,052	40,577	52,670	83,434	189,826	95,768
	Value added, adjusted..do....	813,124	1,285	1,721	2,580	16,480	20,594	73,146	101,769	142,875	294,776	157,898
	Value of shipments.....do....	1,392,573	1,979	3,320	5,286	31,255	35,727	138,501	174,271	237,727	485,869	278,638
	Capital expend., new...do....	28,311	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,009	1,121	4,251	4,243	3,335	8,698	5,341
3622	Industrial controls:											
	Number of establishments.....	216	70	37	34	21	20	15	8	3	6	2
	All employees:											
	Number.....	27,150	172	252	443	663	1,353	2,482	2,725	1,994	17,066	(D)
	Payroll.....\$1,000..	145,270	863	1,335	2,197	3,571	7,603	12,562	14,792	10,304	92,043	(D)
	Value added, adjusted..do....	281,890	1,623	1,996	4,060	5,278	14,265	21,217	22,460	19,340	191,651	(D)
	Value of shipments.....do....	413,163	3,417	4,068	7,435	9,552	23,837	45,258	34,933	27,282	257,381	(D)
	Capital expend., new...do....	7,611	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	708	575	( <sup>1</sup> )	5,062	(D)
3623	Welding apparatus:											
	Number of establishments.....	135	29	16	20	27	13	20	8	1	1	...
	All employees:											
	Number.....	9,895	54	116	275	855	924	3,062	4,609	(D)	(D)	...
	Payroll.....\$1,000..	60,761	212	602	1,371	4,580	5,506	17,747	30,743	(D)	(D)	...
	Value added, adjusted..do....	112,709	577	1,148	3,577	7,868	10,318	34,315	54,906	(D)	(D)	...
	Value of shipments.....do....	247,739	1,398	2,397	6,941	17,531	23,492	81,204	114,776	(D)	(D)	...
	Capital expend., new...do....	4,330	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	995	2,497	(D)	(D)	...
3624	Carbon and graphite products:											
	Number of establishments.....	46	3	2	6	7	8	7	5	7	1	...
	All employees:											
	Number.....	8,904	22	(D)	92	226	493	909	1,745	5,417	(D)	...
	Payroll.....\$1,000..	45,628	121	(D)	467	1,072	2,215	4,118	9,389	28,246	(D)	...
	Value added, adjusted..do....	102,483	262	(D)	791	1,615	3,600	5,923	20,505	69,787	(D)	...
	Value of shipments.....do....	154,925	481	(D)	1,216	2,400	5,372	9,675	32,666	103,115	(D)	...
	Capital expend., new...do....	11,068	30	(D)	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,442	7,826	(D)	...
3629	Electric industrial goods, nec:											
	Number of establishments.....	286	72	43	60	57	20	18	9	4	3	...
	All employees:											
	Number.....	16,842	174	285	848	1,767	1,471	2,538	3,257	2,560	3,942	...
	Payroll.....\$1,000..	78,595	581	1,175	3,362	6,893	6,678	10,553	14,242	13,694	21,417	...
	Value added, adjusted..do....	137,547	1,049	1,830	5,729	10,009	11,717	16,128	23,797	26,796	40,492	...
	Value of shipments.....do....	228,929	2,968	3,774	9,989	17,752	19,060	29,026	42,369	38,464	65,527	...
	Capital expend., new...do....	8,467	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	680	( <sup>1</sup> )	( <sup>1</sup> )	601	3,881	1,953	...

<sup>r</sup>Revised.<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.—Industry-Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3611	Electric measuring instruments.1958...	673,522	474,548	163,387	35,587	74	587,755	474,548	113,207	81
	1954...	368,186	263,053	86,370	18,723	75	347,154	263,053	84,101	76
3612	Transformers.....1958...	642,267	596,412	37,662	8,193	94	638,307	596,412	41,895	93
	1954...	688,447	593,652	87,117	7,678	87	628,917	593,652	35,365	94
3613	Switchgear and switchboards....1958...	962,558	797,912	116,216	48,430	80	891,371	797,912	93,459	90
3621	Motors and generators.....1958...	1,392,573	1,104,285	232,189	56,099	83	1,291,390	1,104,285	187,105	85
	1954...	1,453,713	1,117,832	240,352	95,529	82	1,338,457	1,117,832	220,615	84
3622	Industrial controls.....1958...	413,163	314,741	81,536	16,886	79	447,297	314,741	132,556	70
3623	Welding apparatus.....1958...	247,739	215,185	15,298	17,256	93	233,235	215,185	18,050	92
	1954...	179,945	147,896	17,240	14,809	90	160,025	147,896	12,129	92
3624	Carbon and graphite products...1958...	154,925	149,467	4,452	1,006	97	156,818	149,467	7,351	95
	1954...	111,718	108,055	2,681	982	98	114,519	108,055	6,464	94
3629	Electric industrial goods, nec.1958...	228,929	155,951	63,291	9,687	71	213,073	155,951	57,122	73

<sup>1</sup>Revised.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represents the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries.)

Prod. class code	Electric Measuring Instruments Industry	Electric measuring instruments (SIC 3611)	Other industries	All industries
	Total shipments of the industry.....	673,522	xxx	xxx
	Primary products.....	474,548	113,207	587,755
36111	Integrating instruments, electrical.....	83,293	15,516	88,809
36112	Equipment for testing electrical, radio, and communication circuits, and motors.....	257,991	283,892	341,883
36113	Other electrical measuring instruments.....	116,534	23,519	140,053
36110	Electrical measuring instruments, not specified by kind.....	16,730	280	17,010
	Secondary products.....	163,387	xxx	xxx
36220	General industrial power circuit devices and controls.....	6,041	xxx	xxx
36621	Commercial, industrial, and military electronic communication equipment, except broadcast equipment and home-type intercommunication equipment.....	9,470	xxx	xxx
36795	Other electronic components and accessories, nec, including parts for electron tubes.....	4,062	xxx	xxx
38111	Aircraft flight, nautical, and navigational instruments and automatic pilots.....	10,570	xxx	xxx
38213	Industrial process instruments.....	11,951	xxx	xxx
	Other secondary products.....	121,293	xxx	xxx
	Miscellaneous receipts.....	35,587	xxx	xxx
	Contract work.....	2,866	xxx	xxx
	Resales.....	18,836	xxx	xxx
	Other.....	13,885	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Transformers Industry	Transformers (SIC 3612)	Other industries	All industries
	Total shipments of the industry.....	642,502	xxx	xxx
	Primary products.....	596,412	41,895	638,307
36121	Specialty transformers.....	113,759	16,264	130,023
36122	Power and distribution transformers.....	402,484	19,242	421,726
36123	Power regulators, boosters, and reactors, other transformers, and transformer parts.....	74,976	6,006	80,982
36120	Transformers, not specified by kind.....	5,193	383	5,576
	Secondary products.....	137,662	xxx	xxx
36113	Other electrical measuring instruments.....	3,780	xxx	xxx
36131	Switchgears, including power switchgear assemblies.....	8,602	xxx	xxx
36794	Coils, transformers, reactors, and chokes, for electronic application.....	11,485	xxx	xxx
	All other secondary products.....	113,795	xxx	xxx
	Miscellaneous receipts.....	8,193	xxx	xxx
	Contract work.....	1,347	xxx	xxx
	Resales.....	2,363	xxx	xxx
	Other.....	4,483	xxx	xxx
Prod. class code	Switchgear and Switchboard Apparatus Industry	Switchgear and switchboard apparatus (SIC 3613)	Other industries	All industries
	Total shipments of the industry.....	962,558	xxx	xxx
	Primary products.....	797,912	93,459	891,371
36131	Switchgear, including power switchgear assemblies.....	376,564	43,368	419,932
36132	Circuit breakers.....	192,689	8,301	200,990
36133	Low voltage panel boards and distribution boards.....	197,711	26,512	224,223
36134	Fuses and fuse equipment.....	17,124	13,551	30,675
36130	Switchgear and switchboard apparatus, not specified by kind.....	13,824	1,727	15,551
	Secondary products.....	116,216	xxx	xxx
36111	Integrating instruments, electrical.....	4,553	xxx	xxx
36122	Power and distribution transformers.....	4,869	xxx	xxx
36220	Industrial controls.....	59,367	xxx	xxx
36430	Current carrying wiring devices.....	7,455	xxx	xxx
36442	Electric conduit and conduit fittings.....	2,952	xxx	xxx
	All other secondary products.....	37,020	xxx	xxx
	Miscellaneous receipts.....	48,430	xxx	xxx
	Contract work.....	4,815	xxx	xxx
	Resales.....	30,017	xxx	xxx
	Other.....	13,598	xxx	xxx
Prod. class code	Motors and Generators Industry	Motors and generators (SIC 3621)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,392,573	xxx	xxx
	Primary products.....	1,104,285	187,105	1,291,390
36211	Fractional horsepower motors.....	384,175	<sup>5</sup> 51,645	435,820
36212	Integral horsepower motors and generators.....	390,414	40,044	430,458
36213	Land transportation motors, generators, and control equipment.....	13,574	38,793	52,367
36214	Prime mover generators sets.....	58,049	<sup>6</sup> 15,816	73,865
36215	Motor generator sets and other rotating equipment.....	143,007	21,050	164,057
36216	Parts and supplies for motors and generators.....	190,075	18,806	208,881
36210	Motors and generators, not specified by kind.....	24,991	951	25,942
	Secondary products.....	232,189	xxx	xxx
35662	Speed changers, industrial high speed drives, and gears.....	22,252	xxx	xxx
36795	Other electronic components.....	7,385	xxx	xxx
37291	Other aircraft assemblies, parts, and auxiliary equipment, nec.....	1,662	xxx	xxx
	All other secondary products.....	7200,890	xxx	xxx
	Miscellaneous receipts.....	56,099	xxx	xxx
	Contract work.....	2,351	xxx	xxx
	Resales.....	32,857	xxx	xxx
	Other miscellaneous receipts.....	20,891	xxx	xxx
Prod. class code	Industrial Controls Industry	Industrial controls (SIC 3622)	Other industries	All industries
	Total shipments of the industry.....	413,163	xxx	xxx
36220	General industrial power circuit devices and controls.....	314,741	<sup>a</sup> 132,556	447,297
	Secondary products.....	81,536	xxx	xxx
36131	Switchgear, including power switchgear assemblies.....	11,827	xxx	xxx
36133	Low voltage panel boards and distribution boards.....	5,503	xxx	xxx
36134	Fuses and fuse equipment.....	2,657	xxx	xxx
36293	Other electrical equipment for industrial use.....	2,801	xxx	xxx
	All other secondary products.....	58,748	xxx	xxx
	Miscellaneous receipts.....	16,886	xxx	xxx
	Contract work.....	908	xxx	xxx
	Resales.....	8,828	xxx	xxx
	Other.....	7,150	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Welding Apparatus Industry	Welding apparatus (SIC 3623)	Other industries	All industries
	Total shipments and receipts of the industry.....	247,739	xxx	xxx
	Primary products.....	215,185	18,050	233,235
36231	Arc welding machines, components, and accessories, except electrodes.....	59,675	6,122	65,797
36232	Arc welding electrodes, metal.....	111,874	4,564	116,438
36233	Resistance welders, components, accessories and electrodes.....	40,396	7,364	47,760
36230	Welding apparatus, not specified by kind.....	3,240	( <sup>9</sup> )	3,240
	Secondary products.....	15,298	xxx	xxx
35483	Acetylene welding and cutting, except electric.....	2,433	xxx	xxx
	All other secondary products.....	12,865	xxx	xxx
	Miscellaneous receipts.....	17,256	xxx	xxx
	Contract work.....	1,425	xxx	xxx
	Resales.....	13,073	xxx	xxx
	Other miscellaneous receipts.....	2,758	xxx	xxx
Prod. class code	Carbon and Graphite Products Industry	Carbon and graphite products (SIC 3624)	Other industries	All industries
	Total shipments and receipts of the industry.....	154,925	xxx	xxx
36240	Carbon and graphite products.....	149,467	107,351	156,818
	Secondary products.....	4,452	xxx	xxx
	Miscellaneous receipts.....	1,006	xxx	xxx
	Resales.....	473	xxx	xxx
	Other.....	533	xxx	xxx
Prod. class code	Electric Industrial Goods, NEC Industry	Electric industrial goods, nec (SIC 3629)	Other industries	All industries
	Total shipments of the industry.....	228,929	xxx	xxx
	Primary products.....	155,951	57,122	213,073
36291	Capacitors for industrial use.....	39,826	17,296	57,122
36292	Rectifying apparatus.....	47,227	25,845	73,072
36293	Other electrical equipment for industrial use.....	65,392	13,672	77,064
36290	Electrical industrial apparatus, not specified by kind.....	5,506	309	5,815
	Secondary products.....	63,291	xxx	xxx
36220	Industrial controls.....	3,139	xxx	xxx
36792	Capacitors for electronic application.....	5,261	xxx	xxx
	All other secondary products.....	54,891	xxx	xxx
	Miscellaneous receipts.....	9,687	xxx	xxx
	Contract work.....	631	xxx	xxx
	Resales.....	3,237	xxx	xxx
	Other.....	5,819	xxx	xxx

<sup>1</sup>Revised.

<sup>2</sup>Includes \$4,553 thousand shipped by Industry 3613, Switchgear and Switchboards.

<sup>3</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$12,572 by Industry 3661, Telephone, Telegraph Apparatus; \$16,551 by Industry 3662, Radio, TV, Communications Goods; and \$19,065 by Industry 3811, Scientific Instruments.

<sup>4</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$3,780 by Industry 3612, Transformers; and \$6,462 by Industry 3821, Mechanical Measuring Instruments.

<sup>5</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 34443, Other sheet-metal work; 35712, Computing and accounting machines; 36133 Low voltage panelboards; 36512, Household TV receivers; 36513, Recorders, audio amplifiers and phonographs; 36625, Search and detection apparatus; 36730, Electron tubes, transmitting type; 36930, X-ray equipment; 38112, Other scientific instruments; 38211, Aircraft engine instruments; 38216, Other mechanical measuring instruments; 38310, Optical instruments and lenses; and 38611, Still picture equipment.

<sup>6</sup>Of this figure \$7,585 thousand was shipped by Industry 3871, Watches and Clocks.

<sup>7</sup>Of this figure \$6,943 thousand was shipped by Industry 3519, Internal Combustion Engines.

<sup>8</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33577, Magnet wire; 34332, Warm air furnaces; 34612, Job stampings; 35191, Gasoline engines; 35482, Power driven hand tools; 35532, Oil field machinery; 35611, Industrial pumps; 35641, Industrial fans; 35690, General industrial machinery; 36131, Power switchboards; 36133, Low voltage panelboards; 36220, Industrial controls; 36341, Electric fans; 36350, Household vacuum cleaners; 36730, Electron tubes, transmitting type; 36942, Battery charging generators; 36943, Cranking motors; 36945, Other electrical equipment for internal combustion engines; 37175, Automotive parts; and 38111, Aircraft flight instruments.

<sup>9</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$6,041 by Industry 3494, Valves and Pipe Fittings; \$59,367 by Industry 3613, Switchgear and Switchboards; and \$8,082 by Industry 3643, Current Carrying Wiring.

<sup>10</sup>Value of welding apparatus not specified by kind classified in other industries (considerably less than 1 percent) is included with "Welding Apparatus Industry" to avoid disclosure of operations of individual companies.

<sup>11</sup>Of this figure, \$2,903 thousand was shipped by Industry 3694, Engine Electrical Equipment.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3611--	Electrical measuring instruments, total.....		xxx	587,755	xxx	<sup>2</sup> 347,154
3611--	Integrating instruments, electrical.....		xxx	88,809	xxx	73,091
	A. C. watt-hour meters:					
3611111	Single phase.....	1,000 units	2,620	41,051	2,880	36,937
3611115	Polyphase.....	do.	174	8,094	167	6,492
3611135	Combined watt-hour and demand meters, single phase and polyphase and combined watt-hour and time switch meters.....	do.	168	9,278	279	13,849
3611141	Demand meters (including KW and KVA).....	do.	69	1,821		
3611151	Other electrical integrating meters, including D.C. watt-hour meters, ampere-hour meters, and other miscellaneous integrating instruments not included in the above classifications.....		xxx	12,124	xxx	2,931
3611161	Parts for integrating meters, electrical type (including meter mounting and test equipment), sold separately.....		xxx	14,593	xxx	12,883
3611100	Integrating instruments, electrical, not specified by kind.....		xxx	1,848	...	...
36112--	Equipment for testing electrical radio, and communication circuits and motors.....		xxx	341,883	xxx	190,023
3611212	Oscilloscopes designed primarily for electronic use.....		xxx	34,901	xxx	24,984
3611215	Other types of oscilloscopes and oscillographs.....		xxx	7,488		
3611222	Voltage, current, and power measuring instruments (including electronic) such as volt-ohm-milliammeters, vacuum tube voltmeters, etc.....		xxx	22,389	xxx	( <sup>1</sup> )
3611239	Analyzers for testing characteristics of internal-combustion engines and auxiliary equipment.....		xxx	14,042	xxx	23,189
3611245	Tube characteristics measuring instruments.....		xxx	11,613	xxx	5,808
3611251	Micro-wave test equipment.....		xxx	30,255	xxx	8,488
3611257	Signal generators.....		xxx	31,605	xxx	15,157
3611268	Frequency measuring equipment.....		xxx	18,391	xxx	13,790
3611281	Parts for test equipment, sold separately.....		xxx	9,539	xxx	11,388
3611298	Other test equipment, including broadcast transmitter test equipment, resistor, capacitor, and inductor measuring equipment, etc. (including kits).....		xxx	139,280	xxx	181,541
3611200	Test equipment for testing electrical, radio, and communication circuits and motors, not specified by kind.....		xxx	22,380	xxx	5,678
36113--	Other electrical measuring instruments.....		xxx	140,053	xxx	<sup>2</sup> 84,040
	Electrical instruments which are designed fundamentally, to indicate, measure, or record electrical quantities, but whose scales may be marked in other than electrical quantities:					
	Indicating and recording instruments:					
	Indicating instruments:					
3611311	Panel type instruments, nominal size 4-1/2" and smaller. Initial accuracy within $\pm 2\%$ of full scale deflection for all types, except rectifier types which shall be within $\pm 5\%$ (excluding instruments for use on motor vehicles and aircraft.).....	1,000 units	2,378	22,869	2,038	19,013
3611319	Other panel type instruments, excluding those for use on motor vehicles, but including aircraft types.....		xxx	17,388	xxx	5,064
3611321	Switchboard type instruments 4-1/2" nominal size and larger with accuracy within $\pm 1\%$ of full scale.....	1,000 units	104	8,686	130	7,156
	Portable instruments:					
3611331	Industrial portable ammeters, volt-meters, watt-varmeters, etc. (including hook-on and split core current measuring types).....		xxx	3,377	xxx	4,222
3611335	Laboratory portable instruments--with accuracies within $\pm 1\%$ up to 1/10% of full scale and better, all case sizes.....		xxx	4,904	xxx	3,461
3611345	Other indicating instruments, except motor vehicle and test equipment.....		xxx	13,838	xxx	3,328
3611361	Recording instruments (portable and for panel mounting) not including control types.....		xxx	37,871	xxx	10,190
3611371	Parts for indicating and recording instruments.....		xxx	10,837	xxx	7,938
3611381	Instrument and meter transformers (current and potential).....	1,000 units	202	12,607	xxx	( <sup>2</sup> )
3611385	Ammeters and voltmeters for motor vehicles.....	do.	1,894	3,015	2,503	1,589
3611300	Other electrical measuring instruments, not specified by kind.....		xxx	4,661	xxx	4,434
3611000	Electrical measuring instruments, not specified by kind.....		xxx	17,010	...	...
3612--	Power, distribution, and specialty transformers, total.....		xxx	638,307	xxx	<sup>2</sup> 628,917
36121--	Specialty transformers and fluorescent ballasts, except parts.....		xxx	130,023	xxx	109,554
	Natural-draft dry type transformers, generally known as specialty transformers:					
3612111	Control, signalling, doorbell, and toy.....	1,000 units	870	3,182	2,382	5,649
3612121	Luminous type (includes series fluorescent lighting applications).....	do.	650	6,727	745	6,432
3612131	Ignition (includes oil- and gas-furnace ignition applications but excludes internal combustion engine ignition).....	do.	975	5,795	935	6,267
3612141	Fluorescent lamp ballasts (all types, includes resistance, inductance, and combinations of inductance and capacitance).....	do.	25,828	69,981	20,949	48,213
3612151	Lighting transformers (includes street, airport, and mercury vapor lamp types).....	do.	279	14,046	305	10,281
3612198	General purpose and miscellaneous applications involving voltages of 600 volts and below.....		xxx	27,268	xxx	29,541
3612100	Specialty transformers not specified by kind.....		xxx	3,024	xxx	3,171

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers					
		1958			1954		
		Quantity (No. of units)	Total KVA (1,000)	Value (\$1,000)	Quantity (No. of units)	Total KVA (1,000)	Value (\$1,000)
3612---	Power, distribution, and specialty transformers--Continued						
36122--	Power and distribution transformers, except parts.....	xxx	xxx	421,726	xxx	xxx	441,089
3612211	50 KVA and under 15,000 volts and below.....	552,130	10,739	163,408	579,585	10,228	135,559
3612212	51 KVA to and including 167 KVA, 15,000 volts and below.....	33,337	3,781	30,481	34,346	6,218	42,137
3612214	168 KVA to and including 500 KVA, 15,000 volts and below; and 500 KVA and under of voltages above 15,000.....	7,281	2,338	23,580			
3612216	501 KVA-5,000 KVA (all voltages).....	5,319	7,771	66,417	(NA)	13,901	97,996
3612217	5,001 KVA-10,000 KVA (all voltages).....	661	5,172	28,491	(NA)	8,941	43,977
3612219	Over 10,000 KVA (all voltages).....	677	34,210	108,279	(NA)	36,841	119,323
3612200	Power and distribution transformers, not specified by kind.....	xxx	(NA)	1,070	xxx	(NA)	2,097
		Total shipments including interplant transfers					
		Unit of measure	1958		1954		
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
36123--	Power regulators, boosters, and reactors, other transformers, and transformer parts.....	.....	xxx	80,982	xxx		78,274
3612311	Transformers for other applications--liquid filled (all voltages) and dry type above 600 volts.....	.....	xxx	7,059	xxx		10,174
3612351	Feeder-voltage regulators and boosters.....	.....	xxx	25,040	xxx		24,273
3612331	Current limiting reactors and parts and accessories for power, distribution, and specialty transformers (includes replacement interiors).....	.....	xxx	35,793	xxx		43,853
3612382	Tripping transformers (current and potential):	Number. ...do..	97,008	8,569	(2)	(2)	
3612384	5 KVA and under.....						
3612300	Over 5 KVA.....	.....	xxx	4,321	(NA)		(NA)
3612300	Transformer parts and supplies, power regulators, boosters, and reactors, not specified by kind.....	.....	xxx	5,576	(NA)		(NA)
3612000	Transformers, not specified by kind.....	.....	xxx		(NA)		(NA)
		Value of shipments including interplant transfers (\$1,000)					
		1958			1954		
3613---	Switchgear and switchboard apparatus, total.....			891,371			723,469
36131--	Switchgear, including power switchgear assemblies and other switching and interrupting devices, 2,300 V and over.....			419,932			376,313
3613111	Automatic and manual panels (generators, transformers, feed-control, etc.)....			32,081			32,107
3613115	Metal enclosed switchgear (using power circuit breakers, oil and oilless, and low voltage air-circuit breakers).....			136,517			141,438
3613117	Metal enclosed bus bar structures, over 750 volts (for sale separately).....			14,941			8,294
3613131	Relays (except instrument and circuit), regulators, and miscellaneous switchboard devices (for sale separately).....			47,589			(3)
	Power switching equipment (includes attachments, auxiliaries, bus supports and fittings, and accessories, but excludes power fuses sold separately):						
3613141	Outdoor.....			36,276			41,019
3613145	Indoor.....			7,908			10,449
3613151	Power and distribution fuses and fuse links for 2,300 volts and over, A.C. service (excludes distribution cut-outs).....			8,994			4,908
3613181	Power connectors (excludes connectors used under National Electrical applications).....			9,902			7,997
3613183	Distribution cut-outs.....			16,050			15,500
3613187	Busways and trolley-type duct, including plug-in units and accessories (not exceeding 750 volts consisting of enclosed sectionalized prefabricated bus bars rated 20 amperes or more and associated structures and fittings).....			23,182			21,248
	Relays, circuit:						
3613191	A. C. and D. C. magnetic control circuit relays, excluding overload relays...			81,601	}	93,353	
3613194	Overload relays.....			4,891			
36132--	Circuit breakers.....			200,990			157,491
	Power circuit breakers:						
3613211	Indoor, including oil circuit breakers (all voltages) and oilless circuit breakers over 1,500 volts.....			6,445			17,745
	Outdoor, oil and oilless:						
3613241	34,500 volts and under.....			21,003			22,099
3613245	Over 34,500 volts.....			54,148			50,908

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3613---	Switchgear and switchboard apparatus--Continued		
36132--	Circuit breakers--Continued		
3613252	Open molded case circuit breakers assembled as complete units in supporting and enclosing housings of insulating materials; with or without accessories or attachments (800 ampere and under).....	50,559	28,177
3613256	Enclosed molded case circuit breakers (excludes panelboards and busway plugs, but includes a group of such breakers in a single cabinet intended to function as service equipment) (750 volts and under).....	40,447	21,129
3613298	Other circuit breakers, including low voltage power circuit breakers (1,500 volts and under, interrupting capacity 10,000 ampere and over).....	28,388	17,433
36133--	Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under.....	224,223	162,873
	Panelboards and distribution boards (750 volts and under):		
	Panelboards (including enclosing cabinets):		
3613311	Fusible (includes combination switch and fuse).....	16,628	20,280
3613312	Circuit breaker.....	35,629	25,168
	Distribution switchboards:		
3613315	Fusible.....	9,904	28,560
3613317	Circuit breaker.....	18,545	
3613319	Other (includes theater switchboards).....	8,403	10,604
	Switches (except switches commonly known as snap, toggle, and rotary switches; and switch devices intended primarily to be used with electric motor controls):		
	Knife switches, 750 volts and under, open and enclosed:		
3613321	Open knife switches and parts and switch interiors.....	4,134	5,000
3613323	Enclosed safety switches (include pull out types).....	49,057	29,629
3613325	Enclosed fusible load centers, service entrance equipment, and branch circuit cut-outs.....	14,213	15,649
3613327	Time switches (repetitive with respect to fixed time of day).....	7,065	7,898
3613329	Other switches (excludes snap, toggle, push, etc., but includes meter service equipment, other than meter mounting and test devices).....	19,797	12,019
3613398	Other switchgear and switchboard apparatus.....	22,941	8,066
3613300	Low voltage panelboards and distribution boards, not specified by kind.....	17,907	
36134--	Fuses and fuse equipment under 2,300 volts (except power distribution cut-outs).....	30,675	26,792
3613431	Nonrenewable plug fuses.....	7,785	6,066
3613451	Nonrenewable cartridge fuses.....	9,274	8,033
3613471	Renewable plug and cartridge fuses (includes renewal links).....	5,626	5,882
3613493	Other fuses and open fuse material (includes cut-outs, clips, bases, etc.).....	6,886	6,811
3613400	Fuses and fuse equipment, not specified by kind.....	1,104	(NA)
3613000	Switchgear and switchboard apparatus, not specified by kind.....	15,551	(NA)
		Value of shipments (\$1,000)	
		1958	1954
		Total shipments including interplant transfers	Shipments to other companies (commercial shipments)
		Total shipments including interplant transfers	Shipments to other companies (commercial shipments)
3621---	Motors and generators, total.....	1,291,390	1,155,700
36211--	Fractional horsepower motors.....	435,820	365,226
362111	Aircraft (all types, except synchros, selsyns, and autosyns).....	34,761	(4)
362112	Clock-type synchronous and sub-synchronous timing motors; sub-fractional (under 1/100 hp.) used with synchro and servo devices; universal (other than listed above).....	56,527	(4)
362117	D. C. motors (other than listed above).....	48,341	(8)
362118	Shaded pole A.C. motors.....	61,087	(4)
362119	Other A.C. motors.....	225,578	190,314
3621100	Not specified by type.....	9,526	2,828
36212--	Integral horsepower.....	430,458	394,398
3621211	Single phase, all sizes.....	25,551	(4)
362122	Polyphase--induction.....	223,373	213,014
362123	Synchronous and other A.C. motors.....	17,576	15,031
362124	D.C. motors and generators.....	77,838	(7)
362125	A.C. generators.....	65,260	58,682
3621298	Other and not specified by kind.....	20,860	20,860
36214--	Prime mover generator sets, other than steam or hydraulic turbine.....	73,865	(4)
3621411	Gasoline-engine driven generator sets.....	56,541	(4)
3621431	Diesel-engine driven generator sets.....	15,425	15,425
3621475	Other, including wind-driven.....	1,899	(4)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments (\$1,000)			
		1958		1954	
		Total shipments including interplant transfers	Shipments to other companies (commercial shipments)	Total shipments including interplant transfers	Shipments to other companies (commercial shipments)
3621---	Motors and generators--Continued				
36215--	Motor-generator sets and other rotating equipment.....	r164,057	r(?)	r238,580	r(?)
3621511	Synchronous convertors and double current generators.....	9,068	(4)	5,322	(4)
	Other motor generator sets:				
3621521	Fractional horsepower (less than 3/4 KW).....	6,744	(8)	13,015	(7)
362153	Integral horsepower.....	62,768	(7)	69,941	(7)
362155	Synchros, servos, rate generators, resolvers, combinations, and synchro type components.....	36,885	(8)	64,545	(4)
3621598	Other rotating equipment (including hermetic motors).....	r48,592	r(?)	r85,757	r(?)
36213--	Motors, generators, and control apparatus (and parts) for land transportation equipment	52,367	52,367	81,403	81,403
3621311	Railway motors, generators, and control equipment.....	(10)	(10)	10,647	10,647
3621331	Motors, generators, and control equipment for gasoline-electric and Diesel-electric buses, trucks, locomotives, rail cars, and parts and supplies.....	29,277	29,277	62,109	62,109
3621351	Motors and control equipment for storage-battery powered transportation equipment (for industrial trucks, mining locomotives and other transportation equipment) and parts and supplies.....	4,769	4,769	5,190	5,190
3621398	Other electrical apparatus for land transportation equipment.....	1018,321	1018,321	3,457	3,457
3621611	Parts and supplies for motors, generators, and motor generator sets.....	r108,881	r107,648	88,826	82,851
3621000	Motors, generators, and motor generator sets, not specified by kind.....	25,942	25,942	(NA)	(NA)
		Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
3622---	Industrial controls.....		447,297		353,328
	General industry power circuit devices and controls:				
3622012	A.C. full voltage starters and contractors 600 volts or less, excluding controls for packaged adjustable speed drives and synchronous motor starters.....		75,367		74,992
3622014	A.C. reduced voltage controls, 600 volts or less.....		12,528		1114,391
3622016	Motor control centers, 600 volts or less.....		35,808		
3622018	Starters and contactors for squirrel cage and wound rotor and synchronous motors, over 600 volts, air break and oil immersed.....		8,723		45,604
3622019	D. C. general purpose controls.....		7,082		13,935
3622041	Resistance welding controls, electronic and magnetic.....		3,048		8,259
3622042	Pilot circuit devices, including but without limitation, push buttons, limit switches, interval timers, etc. (excludes relays).....		41,405		(12)
	Specific application controls:				
3622043	Metal mill, crane and hoist controls and accessories.....		(13)		23,644
3622045	Marine and Navy auxiliary controls and accessories.....		28,697		30,527
3622051	Electronic industrial controls, other than resistance welding controls, including automatic control equipment.....		40,021		14,551
3622071	Specific special purpose controllers, such as nonmetal mill and airconditioning; specially engineered control assemblies; and all other controllers, nec, whether magnetic or static.....		28,569		(12)
3622075	Parts for industrial control equipment.....		42,453		(12)
3622081	Rheostats and resistors (except for electronic applications).....		17,279		19,470
3622098	All other industrial control equipment (includes brakes and controls for packaged industrial speed drives).....		1385,722		12101,294
3622000	Industrial electrical control equipment, except railway and motor vehicle controllers, not specified by kind.....		20,595		0,661
		Total shipments including interplant transfers			
		1958		1954	
		Unit of measure		Quantity	Value (\$1,000)
3623---	Welding apparatus, total.....		xxx	233,235	xxx
36231--	Arc welding machines, components, and accessories, except electrodes.....		xxx	65,797	xxx
	Alternating current transformer arc welders:				
3623111	180 amps, and below.....	Number....	64,824	7,314	44,143
3623115	Over 180 amps.....	...do....	(NA)	4,739	9,401
	Direct current arc welders:				
3623131	Generators only.....	...do....	(NA)	1,788	4,293
3623132	Rectifier types (including AC-DC).....	...do....	8,443	7,191	(14)
	Complete units only:				
3623133	Engine driven.....	...do....		14,072	12,744
3623135	Motor driven.....	...do....	23,125	5,679	10,842
3623198	Accessories for arc welding machinery (including electrode holders, ground clamps, arc torches, automatic welding heads, semi-automatic welding guns, standard positioners, etc., excluding welding rods).....		xxx	21,512	xxx
3623100	Arc welding machines, components, and accessories, except electrodes, not specified by kind.....		xxx	3,502	xxx

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3625---	Welding apparatus--Continued					
362502--	Metal arc welding electrodes (cut lengths and coils).....		xxx	116,438	xxx	72,255
	Cut lengths:					
3625011	Mild steel.....	1,000 lbs.	390,363	58,556	363,082	42,271
3625028	Low alloy high strength steel, except hard surfacing.....	..do....	28,559	6,442	24,530	5,654
3625025	Stainless steel (chromium 4% or more).....	..do....	13,794	16,573	12,187	11,264
3625041	Nonferrous, except hard surfacing.....	..do....	3,301	6,482	2,720	3,200
3625041	Hard surfacing all types (including tool steel).....	..do....	16,272	14,622	9,034	5,738
3625053	Coils, and spools, all metals, for automatic arc welding and inert gas shielded arc welding (including electrodes for submerged arc welding).....	..do....	67,273	12,275	22,069	4,128
3625000	Metal arc welding electrodes, not specified by kind.....		xxx	1,488	xxx	...
36233--	Resistance welders, parts, components, accessories and electrodes.....		xxx	47,760	xxx	51,076
3623311	Spot welders (including single electrode multi-electrode and gun types).....	Number....	4,887	10,834	13,699	18,935
3623321	Projection welders.....	..do....	332	2,622	631	2,802
3623331	Seam welders.....	..do....	450	3,727	221	3,592
3623341	Flash and butt welders.....	..do....	569	1,776	1,099	3,121
3623351	Other resistance welders.....	..do....	xxx	8,335	xxx	10,353
3623361	Resistance welder transformers (sold separately).....	Number....	4,521	1,039	7,848	2,529
3623371	Resistance welder electrodes.....	1,000 lbs.	2,824	5,293	xxx	8,043
3623381	Resistance welder accessories (including electrode holders, etc.).....	..do....	xxx	9,176	xxx	...
3623300	Resistance welders, parts, components, accessories and electrodes, not specified by kind.....		xxx	4,958	xxx	1,701
3623000	Welding apparatus, not specified by kind.....		xxx	3,240	xxx	...
			Value of shipments including interplant transfers (\$1,000)			
			1958		1954	
3624---	Carbon and graphite products, total.....		156,818		114,519	
	Brushes and brush plates (carbon-graphite, electro-graphite, graphite and metal graphite):					
3624011	Automotive brushes, including replacement brushes (automotive and light truck type 6 to 12 volts, inclusive).....		7,804		5,720	
3624013	Fractional horsepower brushes, including replacement brushes (brushes 1/4 square inch or less in cross section of 1-1/2 inch long or less).....		5,997		7,368	
3624015	Industrial brushes (brushes over 1/4 square inch in cross section and over 1-1/2 inch long).....		15,139		11,368	
3624017	Brush plates.....		2,239		(15)	
	Electrodes and specialties (carbon, graphite, metal graphite, and metal-impregnated):					
3624053	Electrodes, for electric furnaces and electrolytic cell uses.....		75,343		46,037	
	Other electrodes and specialties:					
3624081	For electrical uses (including welding products--rods, plates, paste brazing and soldering tips; illuminating carbons; pile and rheostat resistance discs, plugs, plates and rods; contacts; power tube and rectifier parts and plates or rods, etc.)		17,302			
3624083	For mechanical uses (including bushings and bearings, packing rings for steam seal, dies, and extrusion guides, rubber vanes and other parts for guided missiles and rockets, etc.).....		6,725		38,937	
3624085	For all other uses (including nuclear, chemical, metallurgical, refractory, etc.)		25,358			
3624000	Other carbon and graphite products, not specified by kind.....		911		155,089	
			Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3629---	Electrical industrial goods, nec, total.....		xxx	213,073	xxx	171,863
36291--	Capacitors for industrial use (except for electronic applications).....		xxx	57,122	xxx	64,161
3629111	Power capacitors (includes shunt and series capacitors and accessories).....		xxx	22,635	xxx	23,597
	A. C. capacitors (except electrolytic):					
3629131	General purpose for motors, controls, etc.....	1,000 units	4,813	11,506	2,327	4,799
3629135	Capacitors for fluorescent lamp ballasts.....	..do....	15,251	13,399	10,822	9,155
3629151	Electrolytic capacitors (A.C. type for motor starting).....	..do....	1,954	1,973	6,559	5,554
3629161	D.C. capacitors for general industrial application, such as filters, blocking, bypass, and discharge service.....		xxx	2,377	xxx	9,373
3629193	Other capacitors (except for electronic applications).....		xxx	5,232	xxx	11,683

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3629---	Electrical industrial goods, nec--Continued		
36292--	Rectifying apparatus.....	73,072	59,345
	Rectifying (power conversion) apparatus, except for electronic application (includes all apparatus using semiconductors and/or electron tubes as power conversion means):		
	Semiconductor power conversion apparatus:		
	Semiconductor battery chargers:		
3629221	Automotive.....	5,924	59,345
3629225	Industrial and railroad.....	8,639	
3629231	Semiconductor computer supplies.....	9,339	
	Semiconductor high-voltage power supplies in excess of 2 kv. (excludes separate associated apparatus such as controls, capacitors, switchgear, etc.):		
3629241	100 kw. and below.....	6,221	59,345
3629245	Above 100 kw.....		
3629249	All other A. C. to D. C. semiconductor power conversion apparatus.....	7,767	
3629251	Power mercury arc rectifiers.....	11,456	
3629298	Other rectifying (power conversion) apparatus.....	22,328	
3629200	Rectifying apparatus, not specified by kind.....	1,398	
36293--	Other electrical equipment for industrial use.....	77,064	48,357
3629311	Coil windings, electrical.....	39,977	48,357
3629398	Other miscellaneous electrical equipment for industrial use, nec.....	37,087	
3629000	Electrical industrial apparatus, not specified by kind.....	5,815	(NA)

NA Not available. <sup>†</sup>Revised.<sup>1</sup>For 1954, included in product code 3611298, Other test equipment.<sup>2</sup>In the 1954 Census of Manufactures only a single figure was collected for instrument, meter, and tripping transformers totaling \$17,649 thousand. This total is included in the total value of electrical measuring instruments and is excluded from the total for power, distribution, and specialty transformers.<sup>3</sup>For 1954, relays, regulators, and miscellaneous switchboard devices were included with circuit relays.<sup>4</sup>Commercial shipments represent over 95 percent of the total value of shipments.<sup>5</sup>Commercial shipments represent between 60 and 80 percent of the total value of shipments.<sup>6</sup>Commercial shipments represent between 25 and 50 percent of the total value of shipments.<sup>7</sup>Commercial shipments represent between 80 and 90 percent of the total value of shipments.<sup>8</sup>Commercial shipments represent between 90 and 95 percent of the total value of shipments.<sup>9</sup>Not directly comparable. In 1954, an undetermined amount of gear motors were included in code 3621598.<sup>10</sup>In 1958, Railway motors, generators, and control equipment, were included under code 3621398, Other electrical apparatus for land transportation equipment.<sup>11</sup>Not directly comparable to 1958. Description for 1954 reads A.C. reduced voltage controls 5,000 volts or less.<sup>12</sup>Data for 1954 represents the sum of "General purpose control accessories (excluding rheostats and resistors)" totaling \$49,908 thousand and "Other industrial controls" of \$51,386 thousand. For 1958, "General purpose control accessories (excluding rheostats and resistors)" was not listed as a separate product. Instead certain more specific product classifications were established and, accordingly, the 1954 and 1958 data for product code 3622098 and product class code 36220 are not strictly comparable. For example "Precision (1/8" gap or less) snap acting switches, excluding limit switches" (Product code 3643036) was established as a specific product for 1958. In 1954 this product was reported as "General purpose control accessories."<sup>13</sup>For 1958 metal mill, crane, and hoist controls are included with code 3622098.<sup>14</sup>Direct current arc welders, rectifier types" were included with "Arc welding machines, component, and accessories, except electrode, not specified by kind."<sup>15</sup>Figures for brush plates are included with those for other carbon and graphite products, not specified by kind.



Table 6B.—Quantity and Value of Motors and Generators Shipped by All Producers  
in the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3621---	Motors and generators, total.....	...	xxx	1,291,390	xxx	1,338,457
36211--	Fractional horsepower motors.....	...	xxx	435,820	xxx	r422,695
362111-	Aircraft (all types, except synchros, selsyns, and autosyns).....	...	xxx	34,761	xxx	53,183
	A.C. types:					
3621112	Under 1/20 hp.....	1,000 units.	366	15,979	4452	128,430
3621113	1/20 hp. and over but not including 1 hp.....	..do.....	57	6,795	2288	224,753
	D.C. types:					
3621116	Under 1/20 hp.....	..do.....	178	6,058	(1)	(1)
3621117	1/20 hp. and over but not including 1 hp.....	..do.....	52	5,929	(2)	(2)
3621121	Clock-type synchronous and sub-synchronous timing motors.....	..do.....	5,984	8,292	8,818	10,876
3621123	Sub-fractional (under 1/100 hp.) used with synchro and servo devices.....	..do.....	57	2,552		
	Universal (other than listed above):					
3621124	Below 1/100 hp. (including toy motors).....	..do.....	24	156	5,128	12,478
3621125	1/100 hp. and over but not including 1/40 hp.....	..do.....	712	4,376	1,496	10,652
3621126	1/40 hp. and over but not including 1/20 hp.....	..do.....	684	5,592	1,751	6,652
3621127	1/20 hp. and over but not including 1/10 hp.....	..do.....	2,412	10,684	3,677	20,975
3621128	1/10 hp. and over but not including 1/6 hp.....	..do.....	666	3,364		
3621129	1/6 hp. and over but not including 1 hp.....	..do.....	2,037	21,511		
	D.C. motors (other than listed above):					
3621171	Below 1/100 hp. (including toy motors).....	..do.....	2,039	6,796	6,262	25,784
3621172	1/100 hp. and over but not including 1/70 hp.....	..do.....	58	623		
3621173	1/70 hp. and over but not including 1/40 hp.....	..do.....	201	889		
3621174	1/40 hp. and over but not including 1/20 hp.....	..do.....	653	3,226		
3621175	1/20 hp. and over but not including 1/10 hp.....	..do.....	8,025	36,807	1,211	6,246
3621176	1/10 hp. and over but not including 1/6 hp.....	..do.....				
3621179	1/6 hp. and over but not including 1 hp.....	..do.....			51	3,227
	Shaded pole A.C. motors:					
3621181	Below 1/100 hp. (including toy motors).....	..do.....	7,587	20,363	2,735	8,349
3621182	1/100 hp. and over but not including 1/70 hp.....	..do.....	2,860	9,969	1,711	5,984
3621183	1/70 hp. and over but not including 1/40 hp.....	..do.....	2,222	6,777	1,679	7,080
3621184	1/40 hp. and over but not including 1/20 hp.....	..do.....	1,990	9,830	1,845	10,905
3621187	1/20 hp. and over but not including 1/10 hp.....	..do.....	1,485	9,853	2,094	17,515
3621189	1/10 hp. and over but not including 1/6 hp.....	..do.....	467	4,295		
	Other A.C. motors:					
3621191	Below 1/100 hp. (including toy motors).....	..do.....	150	1,654	137	3,021
3621192	1/100 hp. and over but not including 1/20 hp.....	..do.....	1,258	6,038	256	4,009
3621193	1/20 hp. and over but not including 1/10 hp.....	..do.....	797	8,790	r3,439	r31,537
3621194	1/10 hp. and over but not including 1/6 hp.....	..do.....	1,722	17,705		
3621195	1/6 hp. and over but not including 1/3 hp.....	..do.....	5,082	55,387	r4,475	r55,322
3621196	1/3 hp. and over but not including 1/2 hp.....	..do.....	7,052	88,608	r5,649	r70,681
3621198	1/2 hp. and over but not including 1 hp.....	..do.....	2,000	47,396	r2,492	r55,391
3621100	Fractional horsepower motors, not specified by kind.....	...	xxx	9,526	xxx	2,828
36212--	Integral horsepower motors and generators, other than for land transportation equipment.....	...	xxx	430,458	xxx	r410,620
	Alternating current:					
3621211	Single phase, all sizes.....	No. of units	628,346	25,551	r601,467	r24,990
	Polyphase-induction:					
3621221	1 to 5 hp.....	..do.....	641,076	57,981	652,116	60,405
3621222	5.1 to 20 hp.....	..do.....	216,971	46,097	188,702	42,542
3621223	21 to 50 hp.....	..do.....	44,755	26,719	48,469	22,995
3621226	51 to 125 hp.....	..do.....	18,573	22,678	35,318	42,309
3621227	126 to 200 hp.....	..do.....	7,094	19,719		
3621228	201 to 500 hp.....	..do.....	2,727	15,584	3,208	14,002
3621229	Over 500 hp.....	..do.....	2,159	34,595	2,494	35,249
	Synchronous and other A.C. motors:					
3621236	1 to 50 hp.....	..do.....	1,261	205	17,999	5,732
3621237	51 to 500 hp.....	..do.....	607	4,910	1,669	7,129
3621239	Over 500 hp.....	..do.....	497	12,461	521	12,400
	D.C. motors and generators (excluding all arc welding generators, battery charging generators for internal combustion engines, and generators used as integral part of land transportation equipment):					
3621241	1 to 5 hp.....	..do.....	12,218	4,441	19,854	4,426
3621242	5.1 to 20 hp.....	..do.....	18,238	13,239	22,776	11,240
3621243	21 to 50 hp.....	..do.....	4,156	8,189	5,932	5,692
3621244	51 to 200 hp.....	..do.....	3,075	17,847	5,599	11,078
3621245	201 to 500 hp.....	..do.....	1,134	12,273	209	4,929
3621249	Over 500 hp.....	..do.....	190	21,849	205	11,274
	A.C. generators (excluding all arc welding generators and generators used as integral part of land transportation equipment):					
3621252	Under 16 KW.....	..do.....	24,956	10,332	31,208	13,952
3621255	16 to 150 KW.....	..do.....	9,473	12,173		
3621256	151 to 400 KW.....	..do.....	956	5,169	3,398	5,418
3621259	Over 500 KW.....	..do.....	338	37,586	410	73,417
3621298	Other and not specified by type integral horsepower generators.....	...	xxx	20,860	xxx	1,441

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Quantity and Value of Motors and Generators Shipped by All Producers in the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3621---	Motors and generators--Continued					
36214--	Prime mover generator sets other than steam or hydraulic turbine.....		xxx	73,865	xxx	96,335
	Generator set units, except steam, gas, and water turbine sets:					
3621411	Gasoline-engine driven generator sets.....	No. of units	53,449	56,541	79,149	51,739
3621431	Diesel-engine driven generator sets.....	..do.....	2,264	15,425	6,154	27,283
3621475	Other generator set units, including wind-driven (except steam, gas, and water turbine sets and motor-generator sets).....		xxx	1,899	xxx	17,313
36215--	Motor-generator sets and other rotating equipment.....		xxx	1164,057	xxx	1238,580
	Motor-generator sets (including dynamotors, converters, inverters, and frequency chargers):					
3621511	Synchronous converters and double current generators.....	No. of units	35,805	9,068	10,099	5,322
	Other motor generator sets:					
3621521	Fractional horsepower (less than 3/4 KW).....	..do.....	43,258	6,744	135,682	13,015
	Integral horsepower:					
3621531	3/4 to 150 KW.....	..do.....	19,483	62,768	45,588	55,544
3621533	151 to 400 KW.....	..do.....			207	3,977
3621535	Over 400 KW.....	..do.....			219	10,420
	Other rotating equipment:					
3621553	Synchros, servos, rate generators, resolvers, and combinations.....		xxx	34,694	xxx	64,545
3621557	Synchro type components.....		xxx	2,191	xxx	
3621598	All other rotating equipment (including hermetic motors) <sup>3</sup> .....		xxx	148,592	xxx	1485,757
36213--	Motors, generators, and control apparatus (and parts) for land transportation equipment.....		xxx	52,367	xxx	81,403
3621311	Railway motors, generators, and control equipment (for trolley cars, trolley coaches, rapid transit cars, trolley locomotives, third rail locomotives, multiple unit cars for railway service and mining locomotives) and parts and supplies.....		xxx	r(5)	xxx	10,647
3621331	Motors, generators, and control equipment for gasoline-electric and Diesel-electric buses, trucks, locomotives, rail cars, and parts and supplies...		xxx	29,277	xxx	62,109
3621351	Motors and control equipment for storage-battery powered transportation equipment (for industrial trucks, mining locomotives, and other transportation equipment) and parts and supplies.....		xxx	4,769	xxx	5,190
3621398	Other electrical apparatus for land transportation equipment.....		xxx	118,321	xxx	3,457
3621611	Parts and supplies for motors, generators, and motor-generator sets, except for land transportation equipment (not including motors for built-in jobs, that are included in the appropriate motor classification above).....		xxx	131,315	xxx	88,826
3621000	Motors and generators, not specified by kind.....		xxx	25,942	xxx	(NA)

NA Not available. <sup>1</sup>Revised.<sup>1</sup>D.C. under 1/20 hp. included with A.C. under 1/20 hp. in 1954.<sup>2</sup>D.C. over 1/20 hp. included with A.C. over 1/20 hp. in 1954.<sup>3</sup>Includes between 2 and 3 million hermetic motors in both 1954 and 1958.<sup>4</sup>Not directly comparable to 1958. Gear motors in 1954 were included with code 3621598.<sup>5</sup>In 1958, "Railway motors, generators, and control equipment," were included under code 3621398, "Other electrical apparatus for land transportation equipment."

Table 6C.—Quantity of Motors and Generators—Shipments Including Interplant Transfers, by Type and Size: 1958 and 1954

(Excludes motors and generators produced for incorporation into other products made in same establishment)

Product	Unit of measure	Quantity of shipments including interplant transfers	
		1958	1954
Fractional horsepower motors and generators.....	1,000 units	58,876	155,681
Below 1/20 hp.....	..do.....	21,039	23,425
1/20 hp. and over, but not including 1 hp.....	..do.....	31,833	123,376
Clock-type synchronous and sub-synchronous timing motors.....	..do.....	5,984	8,817
Integral horsepower motors and generators.....	Units.....	1,638,783	1,641,612
A.C. single phase (all sizes).....	..do.....	628,346	1,601,467
A.C. polyphase-induction:			
1 to 5 hp.....	..do.....	641,076	652,116
5.1 to 20 hp.....	..do.....	216,971	188,702
21 to 50 hp.....	..do.....	44,755	48,469
Over 50 hp.....	..do.....	30,553	41,092
Synchronous and other A.C. motors (all sizes).....	..do.....	2,365	20,189
D.C. motors and generators (all sizes).....	..do.....	39,011	54,575
A.C. generators (all sizes).....	..do.....	35,706	35,002



Table 6D.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
<u>Integrating instruments, electrical (36111):</u>			<u>Other electrical measuring instruments (36113)--</u>	1958 <sup>1</sup>	1954	<u>Power regulators, boosters, and reactors (36123):</u>	
United States, total:			Continued			United States, total:	
1958.....	88,809		Middle Atlantic.....	35,445	38,157	1958.....	80,982
1957.....	81,779		New York.....	5,982	4,926	1957.....	90,931
1956.....	89,455		New Jersey.....	23,305	22,813	1956.....	92,027
1955.....	81,835		Pennsylvania.....	6,158	10,416	1955.....	77,317
1954.....	73,091		East North Central.....	23,544	14,839	1954.....	78,274
1953.....	69,171		Ohio.....	9,642	6,321	1953.....	64,693
1952.....	58,570		Illinois.....	5,460	3,875	1952.....	57,762
1951.....	69,846		Wisconsin.....	4,755	( <sup>3</sup> )	1951.....	44,673
1950.....	69,101		West North Central.....	1,182	1,513	1947.....	37,463
1947.....	63,650		South and West.....	46,847	4,485		
	1958 <sup>1</sup>		California.....	39,024	2,584		1958 <sup>1</sup>
Northeast.....	34,148					Northeast.....	59,149
New Jersey.....	3,796		<u>Specialty transformers</u>	Value of		New York.....	2,075
North Central.....	33,692		(36121):	shipments		East North Central.....	16,755
Ohio.....	6,037		United States, total:			Illinois.....	3,459
South and West.....	20,969		1958.....		130,023	West North Central.....	2,736
			1957.....		182,262	Missouri.....	2,736
<u>Equipment for testing</u>	Value of		1956.....		165,558	South and West.....	2,342
electrical, radio, and	shipments		1955.....		128,969	California.....	1,867
communication circuits, and			1954.....		109,554		Value of
motors (36112):			1953.....		132,318		shipments
United States, total:			1952.....		116,273	<u>Switchgear (36131):</u>	1958 <sup>1</sup>
1958.....	341,883		1951.....		121,233	United States, total:	
1957.....	323,896		1947.....		80,672	1958.....	419,932
1956.....	277,075			1958 <sup>1</sup>	1954		
1955.....	233,476		New England.....	2,866	9,805	New England.....	29,598
1954.....	190,023		Connecticut.....	2,200	3,904	Massachusetts.....	11,787
1953.....	152,565		Middle Atlantic.....	25,277	20,924	Middle Atlantic.....	208,592
1952.....	139,202		New York.....	4,771	6,205	New York.....	12,103
1951.....	87,032		New Jersey.....	14,576	8,903	New Jersey.....	21,598
1950.....	49,802		Pennsylvania.....	5,959	5,816	Pennsylvania.....	174,891
1947.....	54,805		North Central.....	92,698	75,170	East North Central.....	120,179
	1958 <sup>1</sup>	1954	Ohio.....	6,903	6,114	Ohio.....	19,604
New England.....	21,067	24,639	Illinois.....	67,936	52,606	Indiana.....	9,975
Massachusetts.....	15,423	19,890	South and West.....	9,182	3,655	Illinois.....	57,985
Connecticut.....	4,929	( <sup>2</sup> )	California.....	1,295	1,665	Michigan.....	11,173
Middle Atlantic.....	114,236	83,917				Wisconsin.....	21,442
New York.....	45,930	37,512	<u>Power distribution</u>	Value of		West North Central.....	10,455
New Jersey.....	54,520	34,714	transformers (36122):	shipments		Minnesota.....	3,374
Pennsylvania.....	13,786	11,891	United States, total:			Missouri.....	7,081
North Central.....	71,516	38,824	1958.....		421,726	South.....	22,197
Illinois.....	21,724	16,682	1957.....		541,943	Maryland.....	4,221
Michigan.....	8,009	7,288	1956.....		505,379	North Carolina.....	1,456
Wisconsin.....	4,240	5,188	1955.....		416,338	Georgia.....	8,452
Minnesota.....	4,105	( <sup>3</sup> )	1954.....		441,089	Texas.....	2,752
Iowa.....	5,756	( <sup>3</sup> )	1953.....		440,615	West.....	28,811
Missouri.....	2,303	( <sup>3</sup> )	1952.....		407,977	California.....	25,995
South.....	8,983	4,817	1951.....		358,485		
West.....	126,081	37,826	1950.....		282,716	<u>Circuit breakers (36132):</u>	
Pacific.....	120,468	( <sup>2</sup> )	1949.....		282,862	United States, total:	
			1947.....		205,943	1958.....	200,990
<u>Other electrical measuring</u>	Value of			1958 <sup>1</sup>			
instruments (36113):	shipments		Northeast.....		235,788	New England.....	24,113
United States, total:			New Jersey.....		2,213	Middle Atlantic.....	126,100
1958.....	140,053		Pennsylvania.....		162,314	New York.....	3,898
1957.....	154,894					New Jersey.....	21,719
1956.....	117,721		North Central.....		90,086	Pennsylvania.....	100,483
1955.....	83,557		Ohio.....		22,281	East North Central.....	18,300
1954.....	84,040		Wisconsin.....		16,495	Ohio.....	3,515
1953.....	81,566		South and West.....		95,852	West North Central.....	11,277
1952.....	75,315		California.....		28,427	South Central and West.....	21,200
1951.....	58,078					California.....	17,754
1950.....	32,762						
1947.....	38,998						
	1958 <sup>1</sup>	1954					
New England.....	33,035	25,046					
Connecticut.....	2,723	( <sup>2</sup> )					

See footnotes at end of table.

Table 6D.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<b>Low voltage panel-boards (36133):</b>	1958 <sup>1</sup>	<b>Integral horsepower motors and generators (36212)-- Continued</b>	1958 <sup>1</sup> 1954	<b>Parts and supplies for motors, generators, and generator sets (36216)-- Continued</b>	1958 <sup>1</sup> 1954
United States, total: 1958.....	224,223	Northeast.....	217,089 222,528	West North Central.....	4,730 3,289
New England.....	25,330	Pennsylvania.....	67,795 (2)	Minnesota.....	2,257 (2)
Massachusetts.....	6,393	East North Central.....	145,742 137,622	South Atlantic.....	2,767 (3)
Connecticut.....	14,685	Ohio.....	82,720 69,709	East South Central.....	1,473 (3)
Middle Atlantic.....	54,061	Illinois.....	8,087 (2)	Pacific.....	3,558 3,235
New York.....	25,060	Wisconsin.....	32,859 36,191	California.....	3,375 3,235
New Jersey.....	18,728	All other divisions.....	67,627 53,470		
Pennsylvania.....	10,273	Minnesota.....	11,584 (2)	<b>Industrial controls (36220):</b>	Value of shipments
East North Central.....	71,691	Missouri.....	25,897 19,951	United States, total:	
Ohio.....	17,715	California.....	28,319 17,745	1958.....	447,297
Illinois.....	19,707			1957.....	541,749
West North Central and South Atlantic.....	21,258	<b>Motors, generators, and control apparatus (36215):</b>	Value of shipments	1956.....	522,270
Missouri.....	9,391	United States, total:		1955.....	364,859
North Carolina.....	2,768	1958.....	52,367	1954.....	333,858
Georgia.....	7,762	1957.....	74,188	1953.....	366,640
South Central.....	19,034	1956.....	81,898	1952.....	368,854
Kentucky.....	10,458	1955.....	60,416	1951.....	321,532
Texas.....	6,305	1954.....	81,403	1950.....	200,849
West.....	32,849	1953.....	84,928	1947.....	171,232
Washington.....	4,007	1952.....	97,507		
California.....	26,803	1951.....	114,549		
		1950.....	88,081		
		1947.....	69,532		
			1958 <sup>1</sup> 1954		
<b>Fractional horsepower motors (36211):</b>	Value of shipments	Northeast.....	33,939 51,291	New England.....	28,789 28,474
United States, total:		East North Central.....	17,459 28,525	Connecticut.....	18,545 18,635
1958.....	435,820	Wisconsin.....	3,544 6,249	Middle Atlantic.....	78,892 103,809
1957.....	519,760			New York.....	42,587 75,183
1956.....	551,734	<b>Motor-generator sets and rotating equipment (36215):</b>	Value of shipments	New Jersey.....	7,333 12,044
1955.....	503,936	United States, total:		Pennsylvania.....	28,972 16,581
1954.....	422,695	1958.....	164,057	East North Central.....	237,362 174,681
1953.....	516,603	1957.....	224,127	Ohio.....	46,039 32,975
1952.....	392,556	1956.....	218,866	Indiana.....	7,260 (2)
1951.....	393,786	1955.....	194,814	Illinois.....	55,807 32,166
1950.....	358,227	1954.....	238,580	Michigan.....	9,068 (2)
1947.....	310,823	1953.....	196,791	Wisconsin.....	119,188 98,769
		1952.....	191,167	West North Central.....	9,554 7,223
		1951.....	129,704	Minnesota.....	6,801 (2)
		1950.....	49,738	Missouri.....	2,753 (2)
		1947.....	35,979	South.....	66,412 (2)
			1958 <sup>1</sup> 1954	Maryland.....	2,338 (2)
New England.....	15,604 18,158			Mountain.....	1,116 (3)
Massachusetts.....	7,595 10,745			Pacific.....	25,172 13,628
Middle Atlantic.....	66,937 59,101			Washington.....	3,188 1,912
New York.....	55,240 37,455	New England.....	3,260 12,875	California.....	21,691 11,601
New Jersey.....	9,189 20,767	Middle Atlantic.....	84,068 110,877		
Pennsylvania.....	2,508 (2)	New York.....	15,700 40,654	<b>Arc welding machines (36231):</b>	Value of shipments
East North Central.....	274,256 277,458	New Jersey.....	27,555 58,269	United States, total:	1958 <sup>1</sup>
Ohio.....	136,126 148,949	Pennsylvania.....	40,813 11,953	1958.....	65,797
Indiana.....	70,066 72,722	East North Central.....	57,972 90,250	1957.....	78,591
Illinois.....	36,269 28,409	Ohio.....	29,892 62,816	1956.....	75,082
Michigan.....	12,634 11,375	Illinois.....	4,724 7,214	1955.....	52,402
Wisconsin.....	19,431 16,002	Wisconsin.....	9,837 (2)	1954.....	36,694
West North Central.....	37,076 39,956	All other divisions.....	18,757 24,578	1947.....	32,110
Missouri.....	33,939 37,513	California.....	8,696 11,647		
South.....	28,161 (2)	<b>Parts and supplies for motors, generators, and generator sets (36216):</b>	Value of shipments	Northeast.....	12,462
Kentucky.....	1,157 (3)	United States, total:		North Central.....	48,900
Arkansas.....	19,238 (3)	1958.....	108,881	Michigan.....	6,122
Mountain.....	2,066 (3)	1954.....	88,826	Wisconsin.....	8,879
Colorado.....	2,066 (3)	1947.....	78,737	Minnesota.....	4,036
Pacific.....	11,720 15,691		1958 <sup>1</sup> 1954	Missouri.....	2,600
California.....	11,720 15,285			All other divisions.....	4,435
<b>Integral horsepower motors and generators (36212):</b>	Value of shipments	New England.....	4,707 10,140	<b>Metal arc welding electrodes (cut lengths and coils) (36232):</b>	Value of shipments
United States, total:		Connecticut.....	3,624 (2)	United States, total:	
1958.....	430,458	Middle Atlantic.....	40,033 20,761	1958.....	116,438
1957.....	562,318	New York.....	19,899 6,177	1955.....	107,119
1956.....	522,400	New Jersey.....	4,671 5,654	1954.....	72,255
1955.....	384,385	Pennsylvania.....	15,463 8,950	1953.....	91,426
1954.....	410,620	East North Central.....	51,619 50,927	1952.....	93,771
1953.....	486,390	Ohio.....	31,281 33,776	1951.....	80,175
1952.....	461,034	Michigan.....	3,499 4,013	1950.....	50,543
1951.....	424,431	Wisconsin.....	3,416 4,884	1947.....	43,987
1950.....	273,761				
1947.....	258,705				

See footnotes at end of table.



Table 6D.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years—Continued

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
<u>Metal arc welding electrodes (cut lengths and coils) (36282)--Continued</u>	1958 <sup>1</sup>	1954	<u>Capacitors for industrial use (36291)--Continued</u>	1958 <sup>1</sup>	1954	<u>Other electrical equipment for industrial use (36293):</u>	1958 <sup>1</sup>
Middle Atlantic.....	29,659	14,175	Northeast.....	34,893	50,946	United States, total: 1958.....	77,064
Pennsylvania.....	20,488	11,779	Massachusetts.....	9,288	14,787		
North Central.....	65,634	44,357	East North Central.....	18,324	11,628		
Ohio.....	45,023	( <sup>2</sup> )	Illinois.....	9,018	( <sup>2</sup> )	New England.....	9,723
South and West.....	21,145	13,723	All other divisions.....	3,905	( <sup>2</sup> )	Connecticut.....	4,060
California.....	6,858	4,297	<u>Rectifying apparatus (36292):</u>	Value of shipments		Middle Atlantic.....	17,860
	Value of shipments		United States, total: 1958.....	1958 <sup>1</sup>		New York.....	3,748
<u>Capacitors for industrial use (36291):</u>				73,072		New Jersey.....	3,800
United States, total:			Northeast.....	27,104		Pennsylvania.....	10,312
1958.....	57,122		New York.....	6,617			
1957.....	93,997		Pennsylvania.....	13,247		North Central.....	37,663
1956.....	88,653		East North Central.....	27,262		Ohio.....	12,341
1955.....	65,709		Ohio.....	11,507		Indiana.....	6,116
1954.....	64,161		Illinois.....	8,288		Illinois.....	11,669
1953.....	58,508		West North Central.....	7,117		Missouri.....	1,191
1952.....	52,474		Missouri.....	1,654		All other divisions.....	11,818
1951.....	53,137		South and West.....	11,589		California.....	9,699
1950.....	33,101						
1947.....	34,026						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>Revised.

<sup>2</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 36111, New Hampshire, New York, Indiana, Illinois, North Carolina, and California; 36112, Ohio, Indiana, Florida, Oklahoma, Oregon, and California; 36113, New Hampshire, Massachusetts, Indiana, Michigan, Texas, Colorado, and Washington; 36121, Indiana, Michigan, Wisconsin, Missouri, and North Carolina; 36122, Massachusetts, New York, Indiana, Michigan, Missouri, North Carolina, Georgia, Alabama, Mississippi, Arkansas, and Texas; 36123, Massachusetts, New Jersey, Pennsylvania, Indiana, and Wisconsin; 36131, Vermont, Connecticut, Kentucky, Alabama, Arkansas, and Oregon; 36132, Massachusetts, Connecticut, Indiana, Illinois, Michigan, Wisconsin, Iowa, and Kentucky; 36133, New Hampshire, Indiana, Michigan, Wisconsin, Minnesota, Oklahoma, and Colorado; 36134, Massachusetts, Rhode Island, New York, and Missouri; 36211, New Hampshire, Connecticut, Minnesota, Iowa, Maryland, and Tennessee; 36212, Massachusetts, Connecticut, New York, New Jersey, Indiana, and Michigan; 36213, Pennsylvania, Ohio, and Illinois; 36215, Connecticut, Indiana, Michigan, Minnesota, and North Carolina; 36216, Indiana, Illinois, Missouri, Florida, and Kentucky; 36220, Massachusetts, Virginia, Georgia, Kentucky, Oklahoma, and Texas; 36231, New York, New Jersey, Pennsylvania, Ohio, and Colorado; 36232, New York, New Jersey, Indiana, Illinois, Wisconsin, Minnesota, Maryland, and Alabama; 36291, New York, New Jersey, Indiana, Wisconsin, North Carolina, and South Carolina; 36292, Connecticut, New Jersey, Indiana, Michigan, Wisconsin, Minnesota, Missouri, Nebraska, Virginia, and California. 36293, Maine, Massachusetts, Michigan, and Wisconsin.

<sup>3</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>4</sup>Shipments of less than \$1 million reported.

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3611—ELECTRIC MEASURING INSTRUMENTS			
	Materials, parts, containers, and supplies, total.....	.....	xxx	208,678	xxx	105,235
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short ton.....	612	189	666	171
331212	Sheet and strip.....	do.....	6,775	1,520	8,341	1,589
331213	Plates.....	do.....	238	48	1,121	181
331215	Structural shapes.....	do.....	664	181	795	183
331217	Wire and wire products.....	do.....	326	128		
331219	All other carbon steel mill shapes and forms.....	do.....	211	42		
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	1,180	511	3,817	1,367
331225	All other alloy steel mill shapes and forms.....	do.....	2,709	980		
331231	Stainless steel mill shapes and forms.....	do.....	692	983	725	874
	Copper and copper-base alloy:					
335111	Bare wire.....	1,000 pounds.....	1,880	1,124	5,834	3,413
363111	Insulated wire and cable (copper content).....	do.....	3,890	3,460		
335119	All other copper and copper-base alloy mill shapes and forms.....	do.....	4,378	2,556	5,864	3,150
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate, and foil.....	do.....	5,787	3,162	4,792	2,189
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire structural shapes, rod, bar, powder, etc.).....	do.....	3,409	1,674		
	Castings (rough and semifinished):					
332311	Steel.....	Short ton.....	1,126	1,007	121	713
336121	Copper and copper-base alloy.....	1,000 pounds.....	572	403	308	343
336111	Aluminum and aluminum-base alloy.....	do.....	r2,346	1,553	2,328	2,097
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	Number.....	33,766	413	(NA)	(NA)
361419	All other fractional horsepower electric motors.....	do.....	19,554	533	(NA)	(NA)
366231	Electron tubes (except X-ray).....	1,000.....	5,090	7,640	2,128	3,531
366241	Solid state semiconductors (transistors, diodes, etc.).....	1,000.....	1,276	2,367	(NA)	(NA)
359311	Ball and roller bearings.....	.....	xxx	410	xxx	490
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	147,319	xxx	85,544
973000	Materials, containers, supplies, not specified by kind.....	.....	xxx	30,475	(NA)	(NA)
			INDUSTRY 3612—TRANSFORMERS			
	Materials, parts, containers, and supplies, total.....	.....	xxx	246,093	xxx	268,251
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short ton.....	7,060	1,253	8,696	1,221
331212	Sheet and strip.....	do.....	65,818	13,173	93,974	21,340
331213	Plates.....	do.....	52,458	4,310	44,110	4,681
331215	Structural shapes.....	do.....	9,549	2,228	12,771	1,661
331217	Wire and wire products.....	do.....	87	70	10,630	3,203
331219	All other carbon steel mill shapes and forms.....	do.....	7,537	3,212		
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	Short ton.....	509	309	84,888	28,138
331225	All other steel mill shapes and forms (including sheet, and strip, plates structural shapes, wire, etc.).....	do.....	111,404	44,140		
331231	Stainless steel mill shapes and forms.....	do.....	209	446	362	404
	Copper and copper-base alloy:					
335111	Bare wire for electric conduction only.....	1,000 pounds.....	45,002	22,185	43,112	20,789
363111	Insulated wire and cable (copper content).....	do.....	32,111	21,423	r48,513	r28,993
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....	21,478	7,728	r26,676	r12,214
	Castings (rough and semifinished received from foundry):					
332311	Steel.....	Short ton.....	586	650	2,298	1,192
336121	Copper and copper-base alloy.....	1,000 pounds.....	544	587	805	595
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	118,217	xxx	143,820
973000	Materials, containers, supplies, not specified by kind.....	.....	xxx	6,162	xxx	(NA)

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958 <sup>1</sup>			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3613-- SWITCHGEAR AND SWITCHBOARD		INDUSTRY 3622-- INDUSTRIAL CONTROLS	
	Materials, parts, containers, and supplies, total.....		xxx	337,713	xxx	113,401
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short ton.....	18,428	3,098	2,706	618
331212	Sheet and strip.....	do.....	97,174	15,904	18,756	3,446
331213	Plates.....	do.....	18,701	3,032	4,177	472
331215	Structural shapes.....	do.....	14,894	2,791	490	90
331217	Wire and wire products.....	do.....	735	317	574	230
331219	All other carbon steel mill shapes and forms.....	do.....	3,059	1,011	358	117
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	348	148	70	27
331225	All other alloy steel mill shapes and forms (including sheet and strip, plates, structural shapes, wire, etc.).....	do.....	14,163	3,353	2,812	1,254
331231	Stainless steel mill shapes and forms.....	do.....	482	664	785	887
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 pounds...	5,431	3,006	2,133	1,248
363111	Insulated wire and cable.....	1,000 pounds copper content	5,961	4,771	3,102	2,169
335119	All other copper and copper-base alloy mill shapes and forms (plate sheet, tubing, bar, mechanical wire, etc.)...	1,000 pounds...	41,740	22,457	7,780	4,491
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate, and foil.....	do.....	6,992	2,301	304	121
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	3,196	2,348	191	122
	Castings (rough and semifinished received from foundry):					
332311	Steel.....	Short ton.....	3,642	3,502	3,650	1,450
336121	Copper and copper-base alloy.....	1,000 pounds...	8,250	5,721	377	262
336111	Aluminum and aluminum-base alloy.....	do.....	2,114	1,723	1,808	1,116
	Industrial electrical control equipment:					
361611	Purchased from other companies.....		xxx	231,619	xxx	213,634
361615	Received from other plants of your company.....		xxx	240,997	xxx	27,756
970099	All other materials and component parts, containers, and supplies consumed.....		xxx	169,620	xxx	66,122
973000	Materials, containers, supplies, not specified by kind.....		xxx	19,330	xxx	7,769
			1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3623--WELDING APPARATUS			
	Materials, parts, containers, and supplies, total.....		xxx	122,036	xxx	86,327
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short ton.....	8,987	2,008	5,464	1,153
331212	Sheet and strip.....	do.....	17,012	3,539	11,478	1,930
331213	Plates.....	do.....	6,024	917	6,391	843
331217	Wire and wire products.....	do.....	185,753	35,706	157,191	20,072
331215	Structural shapes.....	do.....				
331219	All other carbon steel mill shapes and forms.....	do.....	12,890	1,592	9,000	1,540
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	317	163		
331225	All other alloy steel mill shapes and forms.....	do.....	5,102	1,692	5,015	1,380
331231	Stainless steel mill shapes and forms.....	do.....	3,004	6,009	5,688	7,927
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 pounds...	1,764	1,322	2,518	1,679
363111	Insulated wire and cable.....	1,000 pounds copper content	3,306	2,623	3,781	2,398
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar mechanical wire, etc.).....	do.....	3,853	3,489	3,484	2,150
	Castings (rough and semifinished received from foundry):					
332311	Steel.....	Short ton.....	1,065	372	1,013	466
336121	Copper and copper-base alloy.....	1,000 pounds...	2,779	2,204	2,177	2,049
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	56,916	xxx	42,740
973000	Materials, containers, supplies, not specified by kind.....		xxx	3,484	xxx	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958			1954		
			Consumption of materials received from other establishments		Consumption of materials produced in own establishment	Consumption of materials received from other establishments		Consumption of materials produced in own establishment
			Quantity	Delivered cost (\$1,000)		Quantity	Delivered cost (\$1,000)	
INDUSTRY 3621—MOTORS AND GENERATORS								
	Materials, parts, containers, and supplies, total.....		xxx	500,425	xxx	xxx	521,202	xxx
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short ton...	43,155	9,108	xxx	63,644	9,936	xxx
331212	Sheet and strip.....	...do.....	284,490	58,757	xxx	336,414	58,591	xxx
331213	Plates.....	...do.....	46,554	7,846	xxx	67,790	7,000	xxx
331215	Structural shapes.....	...do.....	2,400	525	xxx	4,855	633	xxx
331217	Wire and wire products.....	...do.....	3,110	1,070	xxx	2,714	858	xxx
331219	All other carbon steel mill shapes and forms.....	...do.....	19,899	6,172	xxx	17,811	5,082	xxx
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	...do.....	2,587	980	xxx	5,246	*1,947	xxx
331225	All other alloy steel mill shapes and forms including sheet and strip, plates, structural shapes, wire, etc.).....	...do.....	55,795	12,046	xxx	70,282	*19,400	xxx
331231	Stainless steel mill shapes and forms.....	...do.....	1,305	2,264	xxx	1,811	1,982	xxx
	Copper and copper-base alloy:							
335111	Bare wire for electrical conduction only.....	1,000 pounds.	r 59,817	r 26,419	xxx	25,357	12,919	xxx
363111	Insulated wire and cable (copper content).....	...do.....	r 66,246	r 42,386	xxx	72,591	40,824	xxx
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	...do.....	27,972	11,611	xxx	76,405	31,430	xxx
	Aluminum and aluminum-base alloy:							
335257	Sheet, plate, and foil.....	...do.....	2,519	1,187	xxx	16,631	5,754	xxx
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	...do.....	22,102	13,738	xxx			
	Primary metals and scrap:							
333111	Copper and copper-base alloy refinery shapes.....	Short ton...	576	416	xxx	(NA)	(NA)	xxx
333311	Zinc and zinc-base alloy refinery shapes.....	...do.....	864	479	xxx	(NA)	(NA)	xxx
941021	Copper and copper-base alloy scrap*.....	...do.....	42	37	xxx	(NA)	(NA)	xxx
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	...do.....	63,707	21,535	(D)	100,937	30,319	8,985
332311	Steel.....	...do.....	4,916	3,443	...	6,130	4,164	...
336121	Copper and copper-base alloy.....	1,000 pounds.	1,184	980	311	2,896	1,763	1,489
336111	Aluminum and aluminum-base alloy.....	...do.....	11,225	7,681	486	18,093	9,397	3,204
339111	Iron and steel forgings.....	Short ton...	3,038	2,883	...	...	...	...
361419	Fractional horsepower electric motors other than timing motors.....	1,000.....	13	285	xxx	27	664	xxx
361431	Integral horsepower electric motors and generators (1 horsepower and over).....	1,000.....	r 11	10,467	xxx	22	7,911	xxx
351921	Diesel and semi-Diesel engines.....	Number.....	819	2,432	xxx	1,778	2,693	739
351911	Gasoline and other carburetor engines.....	...do.....	12,755	4,207	xxx	21,122	4,322	11,099
359311	Ball and roller bearings.....	...do.....	xxx	12,157	xxx	xxx	20,984	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....	...do.....	xxx	r 230,049	xxx	xxx	242,629	xxx
973000	Materials, etc. not specified by kind.....	...do.....	xxx	9,265	xxx	xxx		
1958 <sup>1</sup>								
			Quantity		Delivered cost (\$1,000)			
INDUSTRY 3629—ELECTRICAL INDUSTRIAL GOODS, NEC								
	Materials, parts, containers, and supplies, total.....				xxx			86,496
	Copper and copper-base alloy (except castings):							
335111	Bar wire for electrical conduction only.....	1,000 pounds.			6,652			3,641
363111	Insulated wire and cable (copper content).....	...do.....			6,575			5,433
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)...	...do.....			3,370			2,229
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	1,000.....			25			144
970099	All other materials and components, parts, containers and supplies consumed.....	...do.....			xxx			63,277
973000	Materials, containers, supplies, not specified by kind.....	...do.....			xxx			11,772

\*Revised. r Revised.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Comparable data for 1954 not available.<sup>2</sup>An indeterminate amount of materials other than Industrial electrical control equipment are included.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3611	ELECTRICAL MEASURING INSTRUMENTS (entire industry).....	492	46,923	254,833	31,702	63,646	147,165	419,396	235,188	673,522	19,103
	Establishments with:										
	90% or more specialization.....	389	19,054	97,938	14,113	28,064	60,566	179,472	95,606	279,075	7,067
	75-89% specialization.....	35	5,189	27,814	3,123	6,267	14,201	47,489	31,064	79,733	4,014
36111	Integrating instruments, electrical (primary product class of estab.)..	26	7,094	36,930	4,913	9,575	21,828	75,153	32,101	109,101	1,772
	Establishments with:										
	90% or more specialization.....	17	3,350	16,450	2,189	4,301	9,406	43,572	15,599	60,077	841
36112	Test equipment for testing electrical, radio and communication circuit, and motors.....	236	20,769	113,874	13,274	26,535	61,591	194,863	124,430	328,491	13,056
	Establishments with:										
	90 or more specialization....	161	7,265	41,474	5,389	10,630	24,596	76,657	43,584	120,179	3,562
	75-89 specialization.....	27	4,437	23,446	2,685	5,430	12,351	40,389	28,482	70,357	3,839
36113	Other electrical measuring instruments (primary product class of estab.).....	107	17,573	96,575	12,429	25,497	58,780	136,695	70,387	215,804	3,471
	Establishments with:										
	90 or more specialization....	72	2,961	15,438	2,327	4,863	10,724	23,880	12,901	39,462	1,199
	75-89 specialization.....	10	737	3,496	604	1,221	2,148	6,270	2,172	8,399	(1)
3612	TRANSFORMERS (entire industry).....	175	34,601	186,361	22,578	45,112	108,592	364,212	256,870	642,267	11,353
	Establishments with:										
	90 or more specialization.....	123	26,883	145,159	17,785	35,668	86,152	307,228	207,681	534,201	9,293
	75-89 specialization.....	10	5,709	32,345	3,341	6,722	16,840	44,194	38,187	84,453	1,649
36121	Specialty transformers and fluorescent ballasts, except parts (primary product class of estab.)..	44	7,776	34,626	5,716	11,170	21,331	61,814	59,784	121,950	1,468
	Establishments with:										
	90 or more specialization....	26	4,966	20,507	3,918	7,618	13,738	38,755	42,807	82,226	1,019
36122	Power and distribution transformers, except parts (primary product class of estab.).....	35	25,018	143,807	15,474	31,393	81,663	290,244	187,994	498,908	9,057
	Establishments with:										
	90 or more specialization....	20	8,246	43,250	5,602	11,498	26,368	101,616	73,436	179,219	3,406
36123	Power regulators, boosters, and reactors, other transformers, and transformers parts (primary product class of estab.).....	42	956	4,381	701	1,255	2,962	6,863	5,425	12,391	(1)
	Establishments with:										
	90 or more specialization....	28	302	1,178	248	422	929	2,189	1,979	4,176	(1)
3613	SWITCHGEAR AND SWITCHBOARDS (entire industry).....	402	52,871	283,152	36,263	72,769	170,453	555,044	375,977	962,558	17,820
	Establishments with:										
	90 or more specialization.....	261	36,181	190,027	27,778	49,905	116,842	379,103	248,413	655,182	13,594
	75-89 specialization.....	30	4,233	22,043	3,014	6,718	13,046	41,322	37,476	78,457	650
36131	Switchgear, including power switchgear assemblies and other switching and interrupting devices 2300V and over (primary product class of estab.).....	90	28,000	152,994	18,775	37,410	90,611	299,204	189,707	512,158	10,162
	Establishments with:										
	90 or more specialization....	42	9,055	43,895	6,441	12,817	28,000	90,440	60,587	152,544	4,265
	75-89 specialization.....	9	2,693	12,347	2,018	4,017	7,713	24,090	15,855	40,235	671
36132	Circuit breakers (primary product class of estab.).....	18	8,407	45,859	5,564	11,203	27,451	126,246	63,519	194,077	3,575
	Establishments with:										
	90 or more specialization....	11	3,737	18,353	2,720	5,462	12,341	43,340	23,461	69,122	810
36133	Low voltage panelboards (primary product class of estab.).....	112	10,195	55,736	6,757	13,752	31,949	105,416	87,288	195,401	2,447
	Establishments with:										
	90 or more specialization....	53	3,449	18,541	2,124	4,307	10,218	30,594	20,950	53,256	954
	75-89 specialization.....	21	1,679	8,421	1,219	2,593	5,378	16,751	19,690	35,681	(1)
36134	Fuses and fuse equipment (primary product class of estab.).....	25	3,380	14,483	2,873	5,989	10,381	25,280	15,214	40,956	674
	Establishments with:										
	90 or more specialization....	18	2,479	10,640	2,134	4,466	7,364	18,882	10,354	29,542	(1)
3621	MOTORS AND GENERATORS (entire industry).....	378	93,541	488,854	64,795	127,799	303,785	813,124	545,523	1,392,573	28,311
	Establishments with:										
	90 or more specialization.....	289	43,138	213,228	30,637	60,245	132,261	374,505	253,096	640,368	13,905
	75-89 specialization.....	28	18,085	104,057	12,044	24,378	63,671	194,705	112,140	304,109	6,981

See footnotes at end of table.

Table 8.--General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958--Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36211	MOTORS AND GENERATORS--Continued Fractional horsepower motors (primary product class of estab.)..	102	44,912	225,222	34,052	65,520	153,475	342,929	240,872	591,319	13,726
	Establishments with:										
	90 or more specialization....	52	10,509	45,739	8,520	18,572	33,178	93,317	65,168	158,810	4,416
	75-89 specialization.....	14	2,517	12,506	1,814	3,747	7,523	15,885	11,667	27,939	586
36212	Integral horsepower motors and generators other than for land transportation equipment (primary product class of estab.).....	52	31,081	176,311	18,514	37,256	97,221	324,354	186,514	533,234	8,327
	Establishments with:										
	90 or more specialization....	13	2,776	15,347	1,817	3,627	9,140	31,694	16,467	49,926	907
	75-89 specialization.....	14	5,012	27,846	3,191	6,245	15,235	52,120	24,998	78,874	2,495
36214	Prime mover generator sets other than steam or hydraulic engine (primary product class of estab.)..	15	2,690	14,430	1,777	3,689	7,747	26,912	41,547	73,217	948
	Establishments with:										
	90 or more specialization....	7	1,148	6,108	674	1,488	3,095	10,559	15,295	29,398	( <sup>1</sup> )
36215	Motor-generator sets and rotating equipment (primary product class of estab.).....	r43	r9,730	r48,516	r6,371	r13,263	r27,810	r79,830	r48,547	r126,216	r2,794
	Establishments with:										
	90 or more specialization....	r20	r3,229	r15,585	r2,294	r4,828	r9,719	r29,276	r15,618	r44,469	r879
	75-89 specialization.....	6	2,869	15,628	1,697	3,566	7,921	23,990	13,911	35,241	1,338
36216	Parts and supplies for motors, generators and generator sets (primary product class of estab.)..	r89	r3,228	r15,043	r2,612	r5,116	r10,707	r24,889	r15,642	r41,073	r1,968
	Establishments with:										
	90 or more specialization....	r73	r2,526	r12,082	r2,032	r3,967	r8,651	r20,267	r12,075	r32,976	r1,550
	75-89 specialization.....	4	119	496	95	161	338	644	625	1,279	( <sup>1</sup> )
3622	INDUSTRIAL CONTROLS (entire industry)..	216	27,150	145,270	17,311	33,660	81,769	281,890	125,017	413,163	7,611
	Establishments with:										
	90 or more specialization.....	156	10,564	57,182	6,176	12,232	28,972	118,749	61,425	185,975	2,047
	75-89 specialization.....	20	7,930	42,854	5,691	10,569	27,351	86,864	25,066	110,491	3,921
3623	WELDING APPARATUS (entire industry)....	135	9,895	60,761	6,392	12,746	33,048	112,709	135,219	247,739	4,330
	Establishments with:										
	90 or more specialization.....	95	6,124	39,737	4,020	7,725	21,360	75,426	92,973	168,579	2,938
	75-89 specialization.....	13	2,299	12,847	1,542	3,293	7,588	23,891	23,224	47,424	672
36231	Arc welding machines.....	48	2,985	15,048	2,077	4,234	9,006	27,427	33,255	59,906	1,609
	Establishments with:										
	90 or more specialization....	29	977	4,731	703	1,350	2,788	8,612	9,531	18,447	512
	75-89 specialization.....	7	599	2,514	447	914	1,686	5,653	5,519	10,773	( <sup>1</sup> )
36232	Metal arc welding electrodes (cut lengths and coils) (primary product class of estab.).....	25	3,494	23,943	2,217	4,234	12,650	51,125	78,934	130,751	2,224
	Establishments with:										
	90 or more specialization....	20	1,527	8,295	1,026	1,938	4,670	20,274	42,216	62,590	621
36233	Resistance welders, parts, components, accessories, and electrodes (primary product class of estab.)..	34	3,078	20,137	1,931	3,972	10,696	30,104	18,617	48,535	253
	Establishments with:										
	90 or more specialization....	23	1,838	12,430	1,144	2,334	6,309	18,057	10,759	28,072	( <sup>1</sup> )
	75-89 specialization.....	6	771	4,694	491	1,017	2,753	6,731	4,899	12,174	( <sup>1</sup> )
3624	CARBON AND GRAPHITE PRODUCTS (entire industry).....	46	8,904	45,628	6,620	13,015	30,551	102,483	58,990	154,925	11,068
	Establishments with:										
	90 or more specialization.....	38	7,299	38,269	5,392	10,651	25,878	92,022	52,772	138,181	9,521
3629	ELECTRIC INDUSTRIAL GOODS, NEC (entire industry).....	286	16,842	78,595	11,888	23,619	47,011	137,547	93,079	228,929	8,467
	Establishments with:										
	90 or more specialization.....	200	8,054	34,417	6,266	12,026	22,772	58,354	43,452	103,666	2,612
	75-89 specialization.....	13	927	4,405	715	1,674	3,026	6,666	4,720	11,260	( <sup>1</sup> )
36292	Rectifying apparatus (primary product class of estab.).....	39	5,551	26,794	3,557	7,068	14,468	50,052	30,788	79,685	2,252
	Establishments with:										
	90 or more specialization....	24	1,560	6,531	1,242	2,239	4,368	14,862	11,032	25,776	( <sup>1</sup> )
	75-89 specialization.....	4	113	669	70	151	329	1,095	879	1,930	( <sup>1</sup> )
36293	Other electrical equipment for industrial use (primary product class of estab.).....	141	7,537	35,000	5,790	11,516	22,905	55,811	36,191	93,290	2,464
	Establishments with:										
	90 or more specialization....	113	4,235	17,451	3,480	6,765	12,340	26,258	16,744	44,183	1,487
	75-89 specialization.....	11	505	2,576	384	991	1,858	4,338	2,327	6,430	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.<sup>2</sup>Revised.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3611—ELECTRIC MEASURING INSTRUMENTS								
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)
Nonferrous foundry (except die casting).....	1	1	...	...	(D)	(D)	...	(D)
Nonferrous die casting.....	3	...	2	1	52	...	(D)	(D)
Electroplating.....	21	12	5	4	197	30	42	125
Heat treating and annealing.....	16	9	6	1	89	16	(D)	(D)
Automatic screw machine department.....	20	8	6	6	372	23	52	297
Machine shop.....	116	35	48	33	2,332	88	510	1,734
Tool and die shop.....	50	24	19	7	521	53	160	308
Foundry pattern shop.....	2	1	...	1	(D)	(D)	...	(D)
Stamping, blanking, and forming.....	67	28	26	13	830	64	249	517
Painting, lacquering, and enameling.....	67	51	13	3	310	105	128	77
INDUSTRY 3612—TRANSFORMERS								
Heating treating and annealing.....	28	14	12	2	220	42	(D)	(D)
Machine shop.....	47	21	13	13	1,366	44	142	1,180
Tool and die shop.....	27	10	11	6	759	18	130	741
Plate or structural fabrication.....	32	8	7	17	8,285	21	63	8,201
Stamping, blanking, and forming.....	49	15	22	12	7944	35	216	7693
Painting, lacquering, and enameling.....	65	42	18	5	4,581	93	176	4,312
INDUSTRY 3613—SWITCHGEAR AND SWITCHBOARDS								
Ferrous foundry.....	2	...	...	2	(D)	...	...	(D)
Nonferrous foundry (except die casting).....	5	...	...	5	241	...	...	241
Electroplating.....	53	33	17	3	325	66	179	80
Heat treating and annealing.....	27	24	3	...	62	44	18	...
Automatic screw machine department.....	33	23	6	4	234	54	72	108
Machine shop.....	96	31	30	35	2,532	77	318	2,137
Tool and die shop.....	82	29	40	13	973	65	388	520
Foundry pattern shop.....	10	4	6	...	63	10	53	...
Plate or structural fabrication.....	41	9	17	15	1,052	25	139	888
Stamping, blanking, and forming.....	140	52	43	45	3,456	133	429	2,894
Painting, lacquering, and enameling.....	131	94	32	5	579	181	291	107
INDUSTRY 3621—MOTORS AND GENERATORS								
Ferrous foundry.....	7	...	2	5	541	...	(D)	(D)
Nonferrous foundry (except die casting).....	13	6	5	2	103	16	(D)	(D)
Nonferrous die casting.....	53	22	26	5	472	51	260	161
Forging.....	5	1	4	...	40	(D)	(D)	...
Electroplating.....	34	15	19	...	232	33	199	...
Galvanizing and other hot dip coating.....	8	5	2	1	70	10	(D)	(D)
Heat treating and annealing.....	69	43	22	4	352	94	161	97
Automatic screw machine department.....	59	30	21	8	655	82	209	364
Machine shop.....	158	22	45	91	10,510	57	528	9,925
Tool and die shop.....	125	38	59	28	2,371	97	553	1,721
Foundry pattern shop.....	21	11	9	1	147	19	(D)	(D)
Plate or structural fabrication.....	34	16	6	12	977	39	71	867
Stamping, blanking, and forming.....	130	38	54	38	2,459	99	535	1,825
Painting, lacquering, and enameling.....	143	90	49	4	724	202	412	110
INDUSTRY 3622—INDUSTRIAL CONTROLS								
Ferrous foundry.....	3	...	1	2	111	...	(D)	(D)
Nonferrous foundry (except die casting).....	1	1	...	...	(D)	(D)	...	...
Electroplating.....	14	8	4	2	94	19	(D)	(D)
Heat treating and annealing.....	14	12	2	...	46	(D)	(D)	...
Automatic screw machine department.....	12	7	2	3	142	13	(D)	(D)
Machine shop.....	46	11	17	18	1,414	18	170	1,226
Tool and die shop.....	28	15	7	6	558	31	90	437
Foundry pattern shop.....	3	3	...	...	(D)	(D)	...	...
Plate or structural fabrication.....	14	8	3	3	214	19	24	171
Stamping, blanking, and forming.....	43	21	12	10	778	38	100	640
Painting, lacquering, and enameling.....	52	41	8	3	209	61	70	78
INDUSTRY 3623—WELDING APPARATUS								
Machine shop.....	52	12	20	20	1,086	25	204	857
Tool and die shop.....	13	6	3	4	189	13	28	148
Plate or structural fabrication.....	23	11	6	6	279	24	72	183
Stamping, blanking, and forming.....	16	10	2	4	176	16	(D)	(D)
Painting, lacquering, and enameling.....	31	28	2	1	102	46	(D)	(D)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3629—ELECTRIC INDUSTRIAL GOODS, NEC							
Machine shop.....	63	34	20	10	563	63	191	309
Tool and die shop.....	15	7	5	3	174	10	46	118
Stamping, blanking, and forming.....	33	17	12	4	239	33	105	101
Painting, lacquering, and enameling.....	37	28	8	1	127	42	(D)	(D)

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3611	3612	3613	3621	3622	3623	3629
Total number of establishments in the industry.....	492	175	402	378	216	135	286
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none" .....	429	151	345	340	184	95	226
Percent of total industry employment of establishments completing the metalworking operations inquiry....	90-95	75-80	over 95	90-95	90-95	75-80	75-80

D Withheld to avoid disclosing figures for individual companies.  
r Revised.



# Household Appliances

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3631—Household Cooking Equipment
- 3632—Household Refrigerators and Home and Farm Freezers
- 3633—Household Laundry Equipment
- 3634—Electric Housewares and Fans
- 3635—Household Vacuum Cleaners
- 3636—Sewing Machines
- 3639—Household Appliances, Not Elsewhere Classified

## 3631—Household Cooking Equipment

This industry comprises establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges, and ovens. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters are classified in Industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in Industry 3589. For a detailed list of products of Industry 3631, refer to table 6A, product codes 3631113 to 3631298.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. As indicated in table 1A, new Industry 3631, Household Cooking Equipment, is composed of parts of two industries under the old Standard Industrial Classification system. Specifically, in the new 3631 industry, approximately 25 percent of all employees formerly classified in old Industry 3439, Heating and Cooking Apparatus (Except Electric), and 14 percent of all employees in old Industry 3621, Electrical Appliances, are now classified in the new Industry 3631, Household Cooking Equipment.

Value of shipments and other receipts of the household cooking equipment industry in 1958 totaled \$365 million. This included shipments of household cooking equipment (primary products), valued at \$312 million, shipments of other products (secondary products) valued at \$41 million, and miscellaneous receipts (mainly resales) of \$12 million. This industry's shipments of household cooking equipment (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary).

While the primary products of the industry include electric household ranges and ovens, and household ovens and ranges, except electric, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 42 percent of the total industry shipments are represented by plants specializing in product class 36311, Electric household ranges and ovens; and the remaining 58 percent in product class 36312, Household ovens and ranges, except electric.

Industry 3631 shipments of household cooking equipment (primary products) in 1958 represented 72 percent (coverage ratio) of these products valued at \$433 million shipped by all industries. Other industries shipping household cooking equipment (primary products) consisted mainly of Industry 3632, Household Refrigerators, \$39 million; Industry 3633, Household Laundry Equipment, \$28 million; and Industry 3433, Nonelectric Heating Apparatus, \$18 million.

## 3632—Household Refrigerators and Home and Farm Freezers

This industry comprises establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and dehumidifiers are classified in Industry 3585. For a detailed list of products of Industry 3632, refer to table 6A, product codes 3632111 to 3632229.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Value of shipments and other receipts of the household refrigerators industry in 1958 totaled \$1,002 million. This included shipments of household refrigerators (primary products), valued at \$720 million, shipments of other products (secondary products) valued at \$256 million, and miscellaneous receipts (mainly resales) of \$26 million.

This industry's shipments of household refrigerators (primary products) in 1958 represented 74 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of heat transfer equipment, \$75 million; electric household ranges and ovens, \$39 million; and commercial refrigeration equipment, \$11 million.

While the primary products of the industry include household mechanical refrigerators and home and farm freezers, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 84 percent of the total industry shipments are represented by plants specializing in product class 36321, Household mechanical refrigerators; and the remaining 16 percent in product class 36322, Home and farm freezers.

Industry 3632 shipments of household refrigerators (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$729 million shipped by all industries.

## 3633—Household Laundry Equipment

This industry comprises establishments primarily engaged in manufacturing laundry equipment such as washing machines, wringers, dryers, and ironers for house-



hold use. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in Industry 3582. For a detailed list of products of Industry 3633, refer to table 6A, product codes 3633131 to 3633298.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3633 from code number 3581 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the household laundry equipment industry in 1958 totaled \$739 million. This included shipments of household laundry equipment (primary products), valued at \$654 million, shipments of other products (secondary products), valued at \$65 million, and miscellaneous receipts (mainly resales) of \$20 million. This industry's shipments of household laundry equipment (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent.

While the primary products of the industry include household washing machines and dryers, and other household laundry equipment and parts, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 97 percent of the total industry shipments are represented by plants specializing in household washing machines and dryers, with the remaining 3 percent specializing in other household laundry equipment and parts.

Industry 3633 shipments of household laundry equipment (primary products) in 1958 represented 91 percent (coverage ratio) of these products valued at \$720 million shipped by all industries. In 1954, the coverage ratio was 81 percent. Another industry shipping household laundry equipment was Industry 3632, Household Refrigerators, over \$2 million.

#### 3634—Electric Housewares and Fans

This industry comprises establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans. Important products of this industry include electric air heaters, bed coverings, blenders, broilers, deep fat fryers, flat irons, food mixers, hot plates, percolators and coffee makers, roasters, toasters, desk and bracket fans, and hassock or floor fans. For a detailed list of products of Industry 3634, refer to table 6A, product codes 3634111 to 3634431.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. As indicated in table 1A, electric housewares and fans were included in old Industry 3621, Electrical Appliances. Approximately 74 percent of all employees formerly classified under old Industry 3621 are now included in new Industry 3634, Electric Housewares and Fans.

Value of shipments and other receipts of the electric housewares and fans industry in 1958 totaled \$559 million. This included shipments of electric housewares and fans (primary products), valued at \$447 million, shipments of other products (secondary products), valued at \$71 mil-

lion, and miscellaneous receipts (mainly resales), of \$41 million.

This industry's shipments of electric housewares and fans (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary).

While the primary products of the industry include electric fans, electric razors, and other small household appliances, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 13 percent of the total industry shipments are represented by plants specializing in electric fans; and 71 percent in other small household appliances.

Industry 3634 shipments of electric housewares and fans (primary products) in 1958 represented 82 percent (coverage ratio) of these products valued at \$544 million shipped by all industries.

#### 3635—Household Vacuum Cleaners

This industry comprises establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in Industry 3584. For a detailed list of products of Industry 3635, refer to table 6A, product codes 3635011 to 3635071.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3635 from code number 3584 in the previous classification system but were only slightly changed as to content. Prior to 1958, household vacuum cleaners were included in Industry 3584, Vacuum Cleaners.

Value of shipments and other receipts of the household vacuum cleaner industry in 1958 totaled \$142 million. This included shipments of household vacuum cleaners (primary products), valued at \$129 million, shipments of other products (secondary products), valued at \$9 million, and miscellaneous receipts of \$4 million.

This industry's shipments of household vacuum cleaners (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 included other household appliances and parts, \$3 million.

Industry 3635 shipments of household vacuum cleaners (primary products) in 1958 represented 83 percent (coverage ratio) of these products valued at \$544 million shipped by all industries.

#### 3636—Sewing Machines

This industry comprises establishments primarily engaged in manufacturing sewing machines for domestic and industrial use. For a detailed list of products of Industry 3636, refer to table 6A, product codes 3636011 to 3636081.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3636 from code number 3583 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the sewing machines industry in 1958 totaled \$109 million. This included shipments of sewing machines (primary products),



valued at \$92 million, shipments of other products (secondary products), valued at \$3 million, and miscellaneous receipts (mainly resales) of \$14 million.

This industry's shipments of sewing machines (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent.

Industry 3636 shipments of sewing machines (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$98 million shipped by all industries. In 1954, the coverage ratio was also 94 percent.

#### 3639—Household Appliances, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing household appliances, n.e.c., such as hot water heaters, dishwashers, and food waste disposal units. For a detailed list of products of Industry 3639, refer to table 6A, product codes 3639111 to 3639391.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. As indicated in table 1A, new Industry 3639, Household Appliances, N.E.C., is composed of parts of three industries under the old Standard Industrial Classification system (Industries 3439, 3589, and 3621). Approximately 17 percent of all employees formerly classified in old Industry 3439, Heating and Cooking Apparatus (Except Electric), 31 percent of all employees formerly classified in old Industry 3589, Service and Household Machines, N.E.C., and 3 percent of all employees formerly

classified in old Industry 3621, Electrical Appliances, are now classified in new Industry 3639, Household Appliances, N.E.C.

Value of shipments and other receipts of the household appliances, n.e.c., industry in 1958 totaled \$379 million. This included shipments of household appliances, n.e.c. (primary products), valued at \$284 million, shipments of other products (secondary products), valued at \$74 million, and miscellaneous receipts (mainly resales) of \$21 million.

This industry's shipments of household appliances, n.e.c. (primary products) in 1958 represented 79 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of warm air furnaces, \$6 million; cast iron heating boilers, radiators and convectors, \$4 million; other heating equipment, \$16 million; and service industry machines, \$5 million.

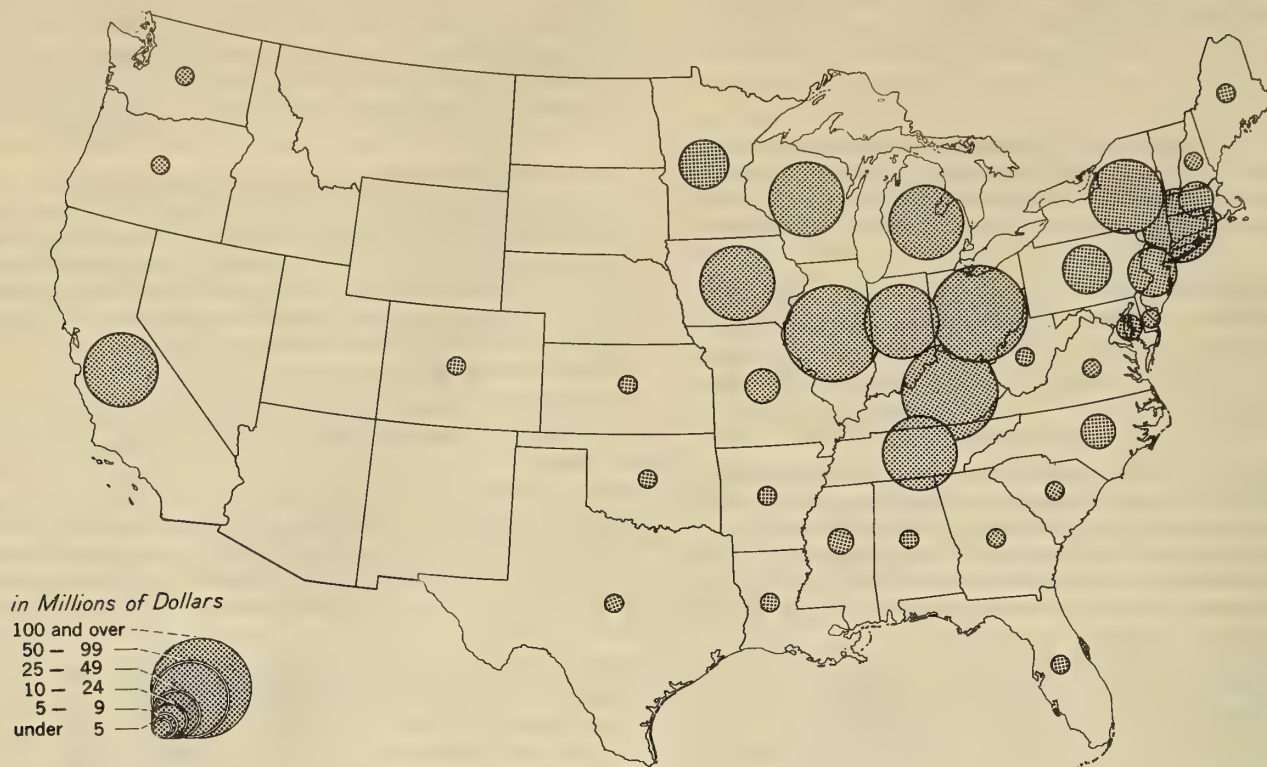
While the primary products of the industry include water heaters, electric; water heaters, except electric; and other household appliances, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 6 percent of the total industry shipments are represented by plants specializing in water heaters, electric; 57 percent in water heaters, except electric; and 37 percent in other household appliances.

Industry 3639 shipments of household appliances, n.e.c. (primary products) in 1958 represented 83 percent (coverage ratio) of these products valued at \$341 million shipped by all industries. Other industries shipping household appliances, n.e.c. (primary products) consisted mainly of Industry 3433, Nonelectric Heating Equipment, \$23 million; and Industry 3635, Household Vacuum Cleaners, \$3 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## HOUSEHOLD APPLIANCES: SIC 363

Value Added by Manufacture by State: 1958



Includes Industries 3631, 3632, 3633, 3634, 3635, 3636 and 3639. See Table 2.

Bureau of the Census M-58-D363



## HOUSEHOLD APPLIANCES

36B-5

Table 1.—General Statistics for the United States. 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3631 (old SIC 3439 and 3621)	Household cooking equipment: <sup>8</sup>														
	1958.....	64	69	55	18,152	89,239	14,101	28,160	60,331	181,091	184,950	364,852	4,002	88	72
3632 (old SIC 3585)	Household refrigerators: <sup>8</sup>														
	1958.....	25	26	26	41,493	221,439	33,177	65,592	167,352	433,369	537,586	1,002,302	9,870	74	98
3633 (old SIC 3581)	Household laundry equipment:														
	1958.....	33	39	33	24,597	134,263	18,021	35,751	89,586	324,480	427,180	738,920	7,219	91	91
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,901	105,674	16,395	31,365	72,728	238,290	395,604	629,176	12,090	95	85
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	25,271	118,898	19,758	38,228	86,778	271,198	453,107	708,747	20,954	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	23,819	108,247	18,948	36,626	78,469	241,594	387,983	628,284	15,239	(NA)	(NA)
	1954.....	48	56	39	22,105	98,556	16,710	32,497	68,066	190,686	331,882	541,346	18,569	93	81
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	27,441	120,019	20,986	(NA)	85,349	213,374	355,667	569,041	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	25,086	103,913	19,267	(NA)	71,203	195,012	286,654	481,668	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	23,442	91,977	17,927	(NA)	62,792	173,318	290,940	464,260	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	22,797	82,186	17,887	(NA)	59,593	165,761	266,535	432,298	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	18,556	63,535	14,095	(NA)	43,498	119,968	181,229	301,199	(NA)	(NA)	(NA)
	1947.....	59	65	(NA)	28,403	85,596	23,651	48,647	65,596	161,791	280,539	442,297	(NA)	90	91
	1939.....	(NA)	42	(NA)	9,610	13,890	7,466	(NA)	9,277	25,236	36,365	61,601	(NA)	(NA)	(NA)
	1937.....	(NA)	40	(NA)	10,575	14,250	9,302	(NA)	11,675	28,681	41,208	69,889	(NA)	(NA)	(NA)
	1935.....	(NA)	41	(NA)	10,271	12,605	8,742	(NA)	9,852	25,384	37,041	62,425	(NA)	(NA)	(NA)
	1933.....	(NA)	41	(NA)	8,240	8,528	6,956	(NA)	6,363	20,181	24,361	44,542	(NA)	(NA)	(NA)
3634 (old SIC 3621)	Electric housewares and fans: <sup>8</sup>														
	1958.....	289	311	105	29,150	128,850	22,477	42,804	84,557	301,033	245,105	559,090	9,985	86	82
3635	Household vacuum cleaners:														
	1958.....	27	27	14	5,330	29,863	3,750	7,454	17,956	84,180	55,359	142,020	2,217	93	83
3584	1958 old SIC 10.....	(NA)	46	21	5,871	32,720	4,116	8,188	19,370	89,409	62,220	153,870	2,240	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,967	38,098	5,147	9,806	24,497	103,851	67,891	171,756	2,576	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,899	46,023	6,828	13,302	30,408	120,036	89,554	205,217	(NA)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,430	40,491	6,562	12,194	26,770	106,520	84,581	187,970	(NA)	(NA)	(NA)
	1954.....	37	39	21	8,383	38,867	6,408	12,717	26,903	89,877	66,057	160,512	2,094	80	88
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,517	47,543	8,014	16,440	33,365	107,419	77,082	184,501	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,242	49,165	8,683	18,374	35,500	98,365	83,643	181,958	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,702	47,329	9,014	(NA)	33,393	86,097	81,100	167,147	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,254	42,735	8,702	17,464	30,297	101,309	73,027	174,286	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,656	37,711	7,982	15,859	26,398	75,994	73,960	149,904	(NA)	(NA)	(NA)
	1947.....	34	34	20	14,880	44,797	12,232	24,434	35,266	91,047	74,994	160,184	(NA)	(NA)	(NA)
	1939.....	(NA)	21	(NA)	(NA)	(NA)	3,886	(NA)	5,288	33,113	9,132	42,245	(NA)	(NA)	(NA)
3636 (old SIC 3583)	Sewing machines:														
	1958.....	83	85	17	9,607	48,314	7,004	13,343	32,782	61,991	44,597	109,314	5,380	97	94
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,745	55,748	8,828	17,072	40,241	84,494	36,453	121,786	4,360	91	97
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	13,296	64,094	10,049	19,649	45,881	89,176	46,167	127,156	3,668	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	13,880	59,412	10,799	19,929	43,663	77,896	47,030	129,736	2,381	(NA)	(NA)
	1954.....	78	82	28	12,414	56,552	9,443	19,142	40,697	70,339	38,796	114,185	3,045	91	94
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,963	69,114	12,611	24,773	49,508	84,454	51,531	135,985	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,381	71,487	14,152	27,021	53,764	98,836	41,024	139,860	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,190	78,627	16,075	(NA)	61,457	105,131	46,475	151,606	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,429	72,386	16,453	33,238	57,964	105,346	63,382	168,728	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,325	53,335	12,666	27,518	41,271	79,240	47,694	126,934	(NA)	(NA)	(NA)
	1947.....	69	70	(NA)	15,305	48,484	12,647	26,095	37,926	68,681	28,880	97,011	(NA)	95	94
	1939.....	(NA)	39	(NA)	9,568	14,895	7,840	(NA)	11,157	21,096	8,611	29,707	(NA)	(NA)	(NA)
	1937.....	(NA)	36	(NA)	10,195	16,243	9,019	(NA)	13,551	25,833	9,003	34,836	(NA)	(NA)	(NA)
	1935.....	(NA)	39	(NA)	8,699	11,574	7,509	(NA)	9,053	16,603	6,032	22,635	(NA)	(NA)	(NA)
	1933.....	(NA)	30	(NA)	7,136	7,590	6,313	(NA)	6,034	10,064	2,862	12,926	(NA)	(NA)	(NA)
3639	Household appliances, nec: <sup>8</sup>														
	1958.....	86	94	71	14,622	79,658	10,102	19,985	47,367	162,664	212,004	378,758	4,365	79	83

See footnotes on next page.



## MANUFACTURES-INDUSTRY STATISTICS

Footnotes for Table 1-36B

NA Not Available. <sup>2</sup>Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: **All employees:** for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table for which comparable 1954 figures are available, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3633	207,395
3635	91,850
3636	76,602

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc., (\$1,000)		Industry Code	Cost of Materials, etc., (\$1,000)	
	1958	1954		1958	1954
3631	180,041	(NA)	3635	54,415	68,114
3632	520,937	(NA)	3636	33,734	35,427
3633	415,030	320,139	3639	201,180	(NA)
3634	220,702	(NA)			

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of shipments (\$1,000)		Industry Code	Value of shipments (\$1,000)	
	1958	1954		1958	1954
3631	359,082	(NA)	3635	140,780	157,907
3632	980,251	(NA)	3636	95,261	112,029
3633	726,296	527,535	3639	363,854	(NA)
3634	527,264	(NA)			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>Data for 1957 and earlier years are not available. The composition of the new industries are described in table 1A.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>A minor revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not strictly comparable. The 1957 and earlier figures are on the old SIC definition of the industry which included industrial vacuum cleaners and parts.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry.)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3631—Household cooking equipment.....	69 <sup>1</sup>	55	18,152	181,091	xxx	xxx	xxx	xxx
Old Industry 3439—Heating and cooking apparatus (except electric).....	55	45	12,810	108,598	<sup>2</sup> 829	<sup>2</sup> 402	<sup>2</sup> 67,904	<sup>2</sup> 637,846
Old Industry 3621—Electrical appliances.....	14	10	5,342	72,493	402	162	39,686	424,771
New Industry 3632—Household refrigerators.....	26	26	41,493	433,369	xxx	xxx	xxx	xxx
Old Industry 3585—Refrigeration machinery.....	26	26	41,493	433,369	<sup>2</sup> 643	311	<sup>2</sup> 111,688	<sup>2</sup> 1,051,796
New Industry 3634—Electric housewares and fans.....	312	106	29,551	305,514	xxx	xxx	xxx	xxx
Old Industry 3621—Electrical appliances.....	312	106	29,551	305,514	402	162	39,686	424,771
New Industry 3639—Household appliances, nec.....	94	71	14,622	162,664	xxx	xxx	xxx	xxx
Old Industry 3439—Heating and cooking apparatus (except electric).....	50	38	8,729	80,227	828	405	50,178	615,219
Old Industry 3589—Service and household machines, nec.....	26	18	4,630	71,927	315	113	14,479	178,940
Old Industry 3621—Electrical appliances.....	18	15	1,263	10,510	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of the adjusted value added.

<sup>2</sup>Revised.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3631	Household cooking equipment, total...	69	55	18,152	89,239	14,101	28,160	60,331	181,091	364,852	4,002	(3)	(3)	(3)
	New England.....	4	3	315	1,327	283	548	1,116	1,680	3,560	(D)	(3)	(3)	(3)
	Middle Atlantic...	13	10	2,704	11,151	2,187	4,139	8,452	18,460	43,544	806	(3)	(3)	(3)
	North Central.....	28	22	8,887	47,092	6,539	13,038	30,786	90,176	174,332	1,639	(3)	(3)	(3)
	Illinois.....	16	13	5,628	29,286	4,188	8,278	19,918	56,719	104,705	917	(3)	(3)	(3)
	South.....	12	11	4,245	19,556	3,517	7,147	12,905	51,561	105,565	1,195	(3)	(3)	(3)
	Pacific.....	12	9	2,001	10,113	1,575	3,288	7,072	19,214	38,051	(2)	(3)	(3)	(3)
	California.....	12	9	2,001	10,113	1,575	3,288	7,072	19,214	38,051	(2)	(3)	(3)	(3)
3632	Household refrigerators, total.....	26	26	41,493	221,439	33,177	65,592	167,352	433,369	1,002,302	9,870	(3)	(3)	(3)
	East North Central	18	18	32,068	174,624	25,567	51,347	133,442	311,460	735,493	8,582	(3)	(3)	(3)
	Michigan.....	6	6	4,696	24,412	3,742	7,357	18,111	37,092	107,704	691	(3)	(3)	(3)
	Wisconsin.....	5	5	1,165	5,747	902	1,741	4,057	9,523	27,510	(2)	(3)	(3)	(3)
	All other divisions.....	8	8	9,425	46,815	7,610	14,245	33,910	121,909	266,809	1,288	(3)	(3)	(3)
3633	Household laundry equipment, total...	39	33	24,597	134,263	18,021	35,751	89,586	324,480	738,920	7,219	22,105	207,395	28,403
	East North Central	22	20	13,904	77,409	10,449	20,460	53,757	181,451	466,005	2,933	12,970	128,689	17,529
	Illinois.....	5	5	3,381	15,016	2,636	5,019	10,648	23,351	78,467	(2)	5,337	33,509	7,613
	West North Central	8	7	4,331	23,168	3,041	6,489	14,354	63,073	127,807	(D)	4,416	39,269	4,987
	All other divisions.....	9	6	6,362	33,686	4,531	8,802	21,475	79,956	146,108	(D)	4,719	39,437	5,887
3634	Electric housewares and fans, total....	311	105	29,150	128,850	22,477	42,804	84,557	301,033	559,090	9,985	(3)	(3)	(3)
	New England.....	24	11	4,613	19,767	3,382	6,425	12,798	57,822	100,149	1,835	(3)	(3)	(3)
	Middle Atlantic...	96	34	5,422	22,782	4,235	7,666	14,780	56,849	107,463	1,451	(3)	(3)	(3)
	New York.....	66	26	3,489	13,319	2,704	4,814	8,763	29,943	61,520	696	(3)	(3)	(3)
	New Jersey.....	18	3	205	953	172	348	802	2,141	4,254	(2)	(3)	(3)	(3)
	Pennsylvania....	12	5	1,728	8,510	1,359	2,504	5,215	24,765	41,689	707	(3)	(3)	(3)
	East North Central	84	24	11,767	59,561	8,788	16,854	37,711	114,274	220,687	4,801	(3)	(3)	(3)
	Ohio.....	15	7	1,801	9,602	1,374	2,901	5,898	19,505	36,553	621	(3)	(3)	(3)
	Illinois.....	36	10	7,549	37,570	5,656	10,496	24,186	73,860	142,158	3,518	(3)	(3)	(3)
	Wisconsin.....	9	4	2,043	10,777	1,432	2,791	6,359	17,661	35,108	632	(3)	(3)	(3)
	West North Central	26	10	2,214	7,161	1,929	3,786	5,300	14,724	26,661	(2)	(3)	(3)	(3)
	Missouri.....	13	8	2,094	6,809	1,826	3,624	5,022	14,088	25,227	(2)	(3)	(3)	(3)
	South and West....	81	26	5,134	19,579	4,143	8,073	13,968	57,364	104,130	1,536	(3)	(3)	(3)
	North Carolina...	6	5	1,061	3,604	842	1,566	2,449	11,169	23,127	(2)	(3)	(3)	(3)
	Tennessee.....	6	3	530	2,109	378	772	1,210	4,997	8,550	(2)	(3)	(3)	(3)
3635	Household vacuum cleaners, total....	27	14	5,330	29,863	3,750	7,454	17,956	84,180	142,020	2,217	(3)	(3)	(3)
	North Central.....	15	8	3,962	22,241	2,681	5,403	12,848	59,660	102,450	1,728	(3)	(3)	(3)
	All other divisions.....	12	6	1,368	7,622	1,069	2,051	5,108	24,520	39,570	(2)	(3)	(3)	(3)
3636	Sewing Machines, total.....	85	17	9,607	48,314	7,004	13,343	32,782	61,991	109,314	5,380	12,414	76,602	15,305
	Middle Atlantic...	54	8	5,912	29,421	4,459	8,372	21,100	32,225	58,559	(D)	6,934	38,446	7,935
	All other divisions.....	31	9	3,695	18,893	2,545	4,971	11,682	29,766	50,755	(D)	5,480	38,156	7,370

See footnotes at end of table

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3639	Household appliances, nec, total.....	94	71	14,622	79,658	10,102	19,985	47,367	162,664	378,758	4,365	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Northeast.....	15	12	2,591	12,904	1,942	3,782	8,613	23,199	59,310	600	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pennsylvania....	7	6	1,671	8,217	1,198	2,265	5,499	12,123	33,503	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	North Central.....	37	28	5,973	32,912	3,943	7,482	18,714	64,957	149,556	1,841	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Ohio.....	9	7	582	2,412	460	902	1,718	6,761	17,221	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South Atlantic....	6	4	888	5,123	678	1,336	3,697	8,268	20,531	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central	9	8	1,370	7,157	973	2,020	4,023	21,133	49,526	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West South Central	4	3	339	1,474	247	477	1,007	2,530	9,047	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West.....	23	16	3,461	20,088	2,319	4,888	11,313	42,577	90,988	1,474	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	19	13	3,134	18,493	2,056	4,408	10,187	40,849	85,865	1,441	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3631, Household Cooking Equipment: New England—Maine, 1 (20-99); Massachusetts, 2 (100-249); Connecticut, 1 (100-249); Middle Atlantic—New York, 9 (1,353); Pennsylvania, 4 (1,351); North Central—Ohio, 7 (2,044); Michigan, 2 (20-99); Wisconsin, 2 (1,000-2,499); Missouri, 1 (1-19); South—Kentucky, 2 (1,000-2,499); Tennessee, 7 (2,510); Mississippi, 1 (100-249); Oklahoma, 1 (20-99); Texas, 1 (1-19).

SIC 3632, Household Refrigerators: Middle Atlantic—New York, 2 (100-249); East North Central—Ohio, 2 (5,000 and over); Indiana, 3 (7,225); Illinois, 2 (2,500-4,999); West North Central—Minnesota, 2 (2,500-4,999); Iowa, 1 (500-999); South Atlantic—Maryland, 1 (100-249); East South Central—Kentucky, 1 (2,500-4,999); Pacific—California, 1 (100-249).

SIC 3633, Household Laundry Equipment: New England—Massachusetts, 1 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New York, 3 (1,200); Pennsylvania, 1 (250-499); East North Central—Ohio, 7 (5,000 &amp; over); Indiana, 1 (1-19); Michigan, 6 (2,152); Wisconsin, 3 (1,000-2,499); West North Central—Minnesota, 1 (100-249); Iowa, 7 (2,500-4,999); East South Central—Kentucky, 1 (1,000-2,499); Tennessee, 1 (1,000-2,499); Pacific—California, 1 (1-19).

SIC 3634, Electric Housewares and Fans: New England—Massachusetts, 10 (500-999); Connecticut, 14 (4,111); East North Central—Indiana, 6 (250-499); Michigan, 18 (100-249); West North Central—Minnesota, 7 (20-99); Iowa, 5 (1-19); Kansas, 1 (20-99); South and West—Delaware, 1 (20-99); Maryland, 2 (1-19); Virginia, 2 (20-99); West Virginia, 2 (20-99); Florida, 3 (1-19); Kentucky, 2 (250-499); Alabama, 3 (1-19); Mississippi, 4 (1,000-2,499); Arkansas, 3 (500-999); Louisiana, 4 (20-99); Oklahoma, 2 (1-19); Texas, 6 (20-99); Colorado, 2 (1-19); Washington, 7 (20-99); Oregon, 2 (1-19); California, 24 (1,000-2,499).

SIC 3635, Household Vacuum Cleaners: New England—Massachusetts, 1 (20-99); Connecticut, 1 (500-999); Middle Atlantic—New York, 2 (100-249); New Jersey, 1 (1-19); Pennsylvania, 2 (100-249); North Central—Ohio, 9 (2,973); Illinois, 3 (500-999); Michigan, 2 (1-19); Iowa, 1 (1-19); South Atlantic—Florida, 1 (1-19); Pacific—California, 4 (100-249).

SIC 3636, Sewing Machines: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Massachusetts, 7 (250-499); Connecticut, 3 (1,709); Middle Atlantic—New York, 44 (500-999); New Jersey, 6 (5,000 and over); Pennsylvania, 4 (20-99); East North Central—Illinois, 9 (1,010); West North Central—Minnesota, 2 (20-99); Missouri, 1 (1-19); South Atlantic—Maryland, 1 (1-19); South Carolina, 1 (500-999); Georgia, 1 (1-19); West South Central—Texas, 1 (1-19); Pacific—California, 3 (1-19).

SIC 3639, Household Appliances, NEC: Northeast—Massachusetts, 1 (250-499); New York, 4 (20-99); New Jersey, 3 (500-999); North Central—Indiana, 5 (1,164); Illinois, 7 (1,733); Michigan, 9 (1,366); Wisconsin, 4 (500-999); Missouri, 1 (250-499); Kansas, 2 (20-99); South Atlantic—Maryland, 2 (500-999); Florida, 4 (100-249); East South Central—Kentucky, 3 (500-999); Tennessee, 5 (250-499); Alabama, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 3 (250-499); West—Colorado, 1 (1-19); Washington, 2 (100-249); Oregon, 1 (100-249).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and/or text of this report).



Table 3.—Detailed Statistics for the United States: 1958

Item	Household cooking equipment (SIC 3631)	Household refrigerators (SIC 3632)	Household laundry equipment (SIC 3633)	Electric housewares and fans (SIC 3634)	Household vacuum cleaners (SIC 3635)	Sewing machines (SIC 3636)	Household appliances, nec (SIC 3639)
Primary product specialization ratio <sup>1</sup> .....	88	74	91	86	93	97	79
Coverage ratio <sup>2</sup> .....	72	98	91	82	83	94	83
Number of establishments, total.....	69	26	39	311	27	85	94
With 1-19 employees.....	14	0	6	206	13	68	23
With 20-99 employees.....	19	3	10	54	5	9	33
With 100 employees or more.....	36	23	23	51	9	8	38
Proprietors and working partners.....Number..	5	0	1	104	3	40	11
All employees:							
Number (average for the year).....	18,152	41,493	24,597	29,150	5,330	9,607	14,622
Payroll.....\$1,000..	89,239	221,439	134,263	128,850	29,863	48,314	79,658
Production workers:							
Number (average for the year).....	14,101	33,177	18,021	22,477	3,750	7,004	10,102
March.....	14,598	34,986	17,309	22,011	3,685	7,600	10,321
May.....	13,917	32,094	15,544	20,864	3,561	7,092	9,904
August.....	13,548	29,810	17,573	22,548	3,616	6,625	9,909
November.....	14,341	35,815	21,239	24,450	4,149	6,694	10,289
Man-hours.....1,000..	28,160	65,592	35,751	42,804	7,454	13,343	19,985
January-March.....do....	7,189	16,723	8,882	10,767	1,771	3,799	5,239
April-June.....do....	7,019	15,736	7,424	9,749	1,850	3,546	4,919
July-September.....do....	6,498	15,295	8,425	9,812	1,711	2,693	4,755
October-December.....do....	7,441	17,838	10,672	12,311	2,112	3,270	5,207
Wages.....\$1,000..	60,331	167,352	89,586	84,557	17,956	32,782	47,367
Cost of materials, etc., total.....do....	184,950	537,586	427,180	245,105	55,359	44,597	212,004
Materials, parts, containers, and supplies consumed.....do....	173,559	507,061	408,083	212,722	52,771	32,356	195,403
Cost of resales.....do....	4,909	16,649	12,150	24,403	944	10,863	10,824
Fuels consumed.....do....	2,043	5,644	2,447	1,692	306	600	1,583
Electricity purchased.....do....	2,189	5,761	3,208	2,412	539	608	1,721
Contract work.....do....	2,250	2,471	1,292	3,876	799	170	2,473
Value of shipments (including resales), total.....do....	364,852	1,002,302	738,920	559,090	142,020	109,314	378,758
Value of resales.....do....	5,770	22,051	16,170	31,826	1,240	14,053	13,904
Value added by manufacture, adjusted...do....	181,091	433,369	324,480	301,033	84,180	61,991	162,664
Manufacturers' inventories:							
Beginning of year, total.....do....	60,717	170,947	111,465	118,066	19,236	53,931	63,082
Finished products.....do....	24,733	104,304	49,432	62,708	9,219	27,531	21,191
Work-in-process.....do....	12,351	28,794	29,460	23,087	5,844	17,393	15,718
Materials, supplies, fuel, etc.....do....	23,633	37,849	32,573	32,271	4,173	9,007	26,173
End of year, total.....do....	61,403	140,478	118,459	100,977	16,713	49,202	56,645
Finished products.....do....	26,072	71,004	45,181	49,467	6,288	24,879	20,084
Work-in-process.....do....	12,201	30,747	46,451	23,376	6,294	17,319	12,735
Materials, supplies, fuel, etc.....do....	23,130	38,727	26,829	28,134	4,131	7,004	23,826
Expenditures for plant and equipment, total.....do....	4,885	13,368	7,580	11,514	2,250	5,950	5,096
New, total.....do....	4,002	9,870	7,219	9,985	2,217	5,380	4,365
New structures and additions to plant.....do....	824	2,100	692	2,126	198	130	951
New machinery and equipment.....do....	3,178	7,770	6,527	7,859	2,019	5,250	3,414
Used plant and equipment.....do....	883	3,498	361	1,529	33	570	731

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES-INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3631	Household Cooking Equipment:											
	Number of establishments.....	69	7	4	3	9	10	10	13	10	3	...
	All employees:											
	Number.....	18,152	85	(D)	(D)	270	701	1,452	4,506	<u>11,138</u>	(D)	...
	Payroll.....\$1,000..	89,239	<u>395</u>	(D)	(D)	1,362	2,882	6,550	20,505	<u>57,545</u>	(D)	...
	Value added, adjusted..do....	181,091	<u>732</u>	(D)	(D)	2,092	4,246	10,385	39,747	<u>123,889</u>	(D)	...
	Value of shipments.....do....	364,852	<u>1,955</u>	(D)	(D)	4,727	12,045	27,329	79,379	<u>239,417</u>	(D)	...
	Capital expend., new...do....	4,002	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	( <sup>1</sup> )	586	1,009	<u>2,172</u>	(D)	...
3632	Household Refrigerators:											
	Number of establishments.....	26	...	...	...	2	1	5	5	2	7	4
	All employees:											
	Number.....	41,493	...	...	...	153	(D)	914	3,180	(D)	11,671	25,575
	Payroll.....\$1,000..	221,439	...	...	...	598	(D)	4,113	16,783	(D)	54,189	145,756
	Value added, adjusted..do....	433,369	...	...	...	783	(D)	7,485	29,480	(D)	96,762	298,859
	Value of shipments.....do....	1,002,302	...	...	...	<u>2,464</u>	(D)	15,059	<u>74,736</u>	(D)	304,001	606,042
	Capital expend., new...do....	9,870	...	...	...	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	(D)	4,272	5,018
3633	Household Laundry Equipment:											
	Number of establishments.....	39	1	2	3	6	4	6	4	5	6	2
	All employees:											
	Number.....	24,597	60	(D)	(D)	206	285	1,137	1,579	3,906	<u>17,424</u>	(D)
	Payroll.....\$1,000..	134,263	<u>279</u>	(D)	(D)	1,116	1,187	5,272	7,688	18,203	<u>100,518</u>	(D)
	Value added, adjusted..do....	324,480	<u>280</u>	(D)	(D)	2,002	2,057	7,778	13,371	37,380	<u>261,612</u>	(D)
	Value of shipments.....do....	<u>738,920</u>	<u>853</u>	(D)	(D)	4,858	5,502	25,285	32,008	115,072	<u>555,342</u>	(D)
	Capital expend., new...do....	7,219	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	<u>6,174</u>	(D)
3634	Electric Housewares and Fans:											
	Number of establishments.....	311	121	53	32	31	23	20	17	8	5	1
	All employees:											
	Number.....	29,150	245	373	435	1,013	1,608	3,253	5,929	5,625	<u>10,669</u>	(D)
	Payroll.....\$1,000..	128,850	833	1,314	1,605	4,088	6,177	12,859	20,726	26,863	<u>54,385</u>	(D)
	Value added, adjusted..do....	301,033	3,291	2,354	3,034	9,891	11,953	30,961	43,909	67,988	<u>127,652</u>	(D)
	Value of shipments.....do....	559,090	4,830	5,782	5,977	21,168	28,085	66,201	89,314	120,699	<u>217,034</u>	(D)
	Capital expend., new...do....	9,985	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	713	845	2,843	<u>4,481</u>	(D)
3635	Household Vacuum Cleaners:											
	Number of establishments.....	27	8	2	3	4	1	4	2	2	1	...
	All employees:											
	Number.....	5,330	16	45	(D)	185	(D)	637	4,447	(D)	(D)	...
	Payroll.....\$1,000..	29,863	59	<u>135</u>	(D)	<u>757</u>	(D)	3,368	<u>25,544</u>	(D)	(D)	...
	Value added, adjusted..do....	84,180	135	<u>178</u>	(D)	<u>959</u>	(D)	7,089	<u>75,819</u>	(D)	(D)	...
	Value of shipments.....do....	142,020	301	<u>639</u>	(D)	<u>2,846</u>	(D)	15,808	<u>122,426</u>	(D)	(D)	...
	Capital expend., new...do....	2,217	( <sup>1</sup> )	( <sup>1</sup> )	(D)	( <sup>1</sup> )	(D)	( <sup>1</sup> )	<u>2,019</u>	(D)	(D)	...
3636	Sewing Machines:											
	Number of establishments.....	85	40	16	12	6	3	1	3	2	1	1
	All employees:											
	Number.....	9,607	77	112	169	151	<u>9,098</u>	(D)	(D)	(D)	(D)	(D)
	Payroll.....\$1,000..	48,314	331	552	1,030	1,020	<u>45,381</u>	(D)	(D)	(D)	(D)	(D)
	Value added, adjusted..do....	61,990	598	710	1,267	1,507	<u>57,908</u>	(D)	(D)	(D)	(D)	(D)
	Value of shipments.....do....	109,314	967	1,182	2,336	2,298	<u>102,531</u>	(D)	(D)	(D)	(D)	(D)
	Capital expend., new...do....	5,380	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	<u>5,179</u>	(D)	(D)	(D)	(D)	(D)
3639	Household Appliances, nec:											
	Number of establishments.....	94	8	4	11	22	11	16	14	7	1	...
	All employees:											
	Number.....	14,622	14	26	175	716	782	2,469	4,602	5,838	(D)	...
	Payroll.....\$1,000..	79,658	65	109	949	3,386	3,770	11,928	24,506	<u>34,945</u>	(D)	...
	Value added, adjusted..do....	162,664	109	612	1,665	8,191	6,231	25,161	55,038	<u>65,657</u>	(D)	...
	Value of shipments.....do....	378,758	302	1,119	4,937	22,076	18,858	60,321	117,504	<u>153,641</u>	(D)	...
	Capital expend., new...do....	4,365	( <sup>1</sup> )	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	895	1,314	<u>1,689</u>	(D)	...

<sup>1</sup>Revised.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3631	Household cooking equipment....1958..	364,852	311,789	40,629	12,434	88	433,123	311,789	121,334	72
3632	Household refrigerators.....1958..	1,002,302	719,684	256,148	26,470	74	729,170	719,684	9,486	98
3633	Household laundry equipment....1958..	<sup>r</sup> 738,920	654,088	<sup>r</sup> 66,082	18,750	<sup>r</sup> 91	719,574	654,088	65,486	91
	1954..	<sup>r</sup> 541,346	482,257	34,741	<sup>r</sup> 24,348	93	596,349	482,257	114,092	81
3634	Electric housewares and fans...1958..	559,090	446,635	71,173	41,282	86	543,790	446,635	97,155	82
3635	Household vacuum cleaners.....1958..	142,020	129,021	9,325	3,674	93	155,571	129,021	26,550	83
3636	Sewing machines.....1958..	109,314	92,010	2,786	14,518	97	97,725	92,010	5,715	94
	1954..	117,554	101,265	9,957	6,332	91	107,492	101,265	6,227	94
3639	Household appliances, nec.....1958..	378,758	284,117	73,883	20,758	79	341,482	284,117	57,365	83

<sup>1</sup>Revised.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Product class code	Household cooking equipment industry	Household cooking equipment (SIC 3631)	Other industries	All industries
	Total shipments and receipts of the industry.....	364,852	xxx	xxx
	Primary products.....	311,789	121,334	433,123
36311	Electric household ranges and ovens and surface cooking unit equipment.....	117,577	<sup>1</sup> 86,171	203,748
36312	Household ovens and ranges, equipment and parts, except electric.....	194,212	<sup>2</sup> 35,163	229,375
	Secondary products.....	40,629	xxx	xxx
34334	Domestic heating stoves, except electric.....	6,436	xxx	xxx
	All other secondary products.....	<sup>3</sup> 34,193	xxx	xxx
	Miscellaneous receipts.....	12,434	xxx	xxx
	Contract work.....	2,537	xxx	xxx
	Resales.....	5,770	xxx	xxx
	Other.....	4,127	xxx	xxx
Product class code	Household refrigerators industry	Household refrigerators (SIC 3632)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,002,302	xxx	xxx
	Primary products.....	719,684	9,486	729,170
36321	Household refrigerators.....	547,199	3,965	551,164
36322	Home and farm freezers.....	172,485	5,521	178,006
	Secondary products.....	256,148	xxx	xxx
35851	Heat transfer equipment.....	75,316	xxx	xxx
35853	Commercial refrigeration equipment.....	11,280	xxx	xxx
36311	Electric household ranges and ovens.....	39,135	xxx	xxx
	All other secondary products.....	<sup>4</sup> 130,417	xxx	xxx
	Miscellaneous receipts.....	26,470	xxx	xxx
	Resales.....	22,051	xxx	xxx
	Contract work and other miscellaneous receipts.....	4,419	xxx	xxx
Product class code	Household laundry equipment industry	Household laundry equipment (SIC 3633)	Other industries	All industries
	Total shipments and receipts of the industry.....	742,466	xxx	xxx
	Primary products.....	654,088	65,486	719,574
36331	Household mechanical washing machines, dryers and washer-dryer combinations.....	610,252	<sup>5</sup> 61,961	672,213
36332	Other household laundry equipment and parts.....	42,973	3,525	46,498
36330	Household laundry equipment, nsk.....	863	...	863
	Secondary products.....	<sup>6</sup> 66,082	xxx	xxx
3631-	Household cooking equipment.....	27,804	xxx	xxx
	All other secondary products.....	<sup>7</sup> 38,278	xxx	xxx
	Miscellaneous receipts.....	18,750	xxx	xxx
	Contract work.....	248	xxx	xxx
	Resales.....	16,170	xxx	xxx
	Other.....	2,332	xxx	xxx
Product class code	Electric housewares and fans industry	Electric housewares and fans (SIC 3621)	Other industries	All industries
	Total shipments and receipts of the industry.....	559,090	xxx	xxx
	Primary products.....	446,635	97,155	543,790
36341	Electric fans, except industrial type.....	52,979	<sup>7</sup> 24,074	77,053
36342	Electric razors and dry shavers.....	54,091	( <sup>8</sup> )	54,091
36343	Other small household electric appliances.....	288,026	<sup>9</sup> 48,134	336,160
36344	Parts and attachments for small household electric appliances.....	31,762	<sup>10</sup> 24,096	55,858
36340	Electric housewares and fans, nsk.....	19,777	851	20,628
	Secondary products.....	71,173	xxx	xxx
35891	Commercial cooking and food warming equipment.....	1,858	xxx	xxx
36391	Water heaters, electric.....	1,547	xxx	xxx
	All other secondary products.....	<sup>11</sup> 67,768	xxx	xxx
	Miscellaneous receipts.....	41,282	xxx	xxx
	Contract work.....	402	xxx	xxx
	Resales.....	31,826	xxx	xxx
	Other miscellaneous receipts.....	9,054	xxx	xxx

See footnotes at end of table.



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Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Product class code	Household vacuum cleaners industry	Household vacuum cleaners (SIC 3635)	Other industries	All industries
	Total shipments and receipts of the industry.....	142,020	xxx	xxx
36350	Household vacuum cleaners.....	129,021	<sup>12</sup> 26,550	155,571
	Secondary products.....	9,325	xxx	xxx
36393	Other household appliances and parts.....	2,720	xxx	xxx
	All other secondary products.....	<sup>13</sup> 6,605	xxx	xxx
	Miscellaneous receipts.....	3,674	xxx	xxx
	Contract work.....	822	xxx	xxx
	Resales.....	1,240	xxx	xxx
	Other miscellaneous receipts.....	1,612	xxx	xxx
Product class code	Sewing machines industry	Sewing machines (SIC 3636)	Other industries	All industries
	Total shipments and receipts of the industry.....	109,314	xxx	xxx
36360	Sewing machines and parts.....	92,010	<sup>14</sup> 5,715	97,725
	Secondary products.....	2,786	xxx	xxx
	Miscellaneous receipts.....	14,518	xxx	xxx
	Resales.....	14,053	xxx	xxx
	Other miscellaneous receipts.....	465	xxx	xxx
Product class code	Household appliances, nec, industry	Household appliances, nec (SIC 3639)	Other industries	All industries
	Total shipments and receipts of the industry.....	378,758	xxx	xxx
	Primary products.....	284,117	57,365	341,482
36391	Water heaters, electric.....	46,344	<sup>15</sup> 10,505	56,849
36392	Water heaters, except electric.....	130,574	<sup>16</sup> 22,964	153,538
36393	Other household appliances and parts.....	107,199	<sup>17</sup> 23,896	131,095
	Secondary products.....	73,883	xxx	xxx
34332	Warm air furnaces.....	6,229	xxx	xxx
34333	Cast iron heating boilers, radiators and convectors, except parts.....	4,075	xxx	xxx
34336	Other heating equipment, except electric.....	16,223	xxx	xxx
35892	Service industry machines and parts.....	5,435	xxx	xxx
	All other secondary products.....	<sup>18</sup> 41,921	xxx	xxx
	Miscellaneous receipts.....	20,758	xxx	xxx
	Contract work.....	2,167	xxx	xxx
	Resales.....	13,904	xxx	xxx
	Other miscellaneous.....	4,687	xxx	xxx

Revised

<sup>1</sup>Includes \$39,135 million shipped by Industry 3632, Household Refrigerators, and shipments by the following industries, the value of which total \$2 million or more each, but are withheld to avoid disclosing individual company figures: Industry 3585, Industry 3629, Industry 3633, and Industry 3634.<sup>2</sup>Includes \$16,692 shipped by Industry 3433, Nonelectric Heating Apparatus, and shipments by the following industry, the value of which totaled over \$2 million, but is withheld to avoid disclosing individual company figures: Industry 3635.<sup>3</sup>Includes the following product classes which total \$2 million or more each, but are withheld to avoid disclosing individual company figures: 34612, 35851, 35,891, and 36343.<sup>4</sup>Includes the following product classes which total \$2 million or more each, but are withheld to avoid disclosing individual company figures: 35854, 35857, 36331, 36344, 36350, 36391, 36393, and 37291.<sup>5</sup>Includes shipments of over \$2 million by Industry 3632, however, the exact figure is withheld to avoid disclosing individual company figures.<sup>6</sup>Includes the following product classes which total \$2 million or more each, but are withheld to avoid disclosing individual company figures: 36343, 36344, and 37291.<sup>7</sup>Includes shipments of over \$2 million each by the following industries, but the exact figures are withheld to avoid disclosing individual company figures: Industry 3585, Industry 3621, and Industry 3751.<sup>8</sup>Value of electric razors and dry shavers shipped by other industries (less than 1 percent) is included with the shipments of the electric housewares and fans industry to avoid disclosure of operations of individual companies.<sup>9</sup>Includes shipments of over \$2 million each by the following industries, but the exact figures are withheld to avoid disclosing individual company figures: Industry 3451, Industry 3461, Industry 3585, Industry 3631, Industry 3633, and Industry 3717.<sup>10</sup>Includes shipments of over \$2 million each by the following industries, but the exact figures are withheld to avoid disclosing individual company figures: Industry 3629, Industry 3632, and Industry 3633.<sup>11</sup>Includes the following product classes which total \$2 million or more each, but are withheld to avoid disclosing individual company figures: 33610, 34293, 34295, 34443, 34615, 35227, 35228, 35482, and 36350.<sup>12</sup>Includes shipments of over \$2 million each by the following industries, but the exact figures are withheld to avoid disclosing individual company figures: Industry 3585, Industry 3621, Industry 3632, Industry 3634, and Industry 3639.<sup>13</sup>Includes the following product class which totals \$2 million or more, but is withheld to avoid disclosing individual company figures: 33610.<sup>14</sup>Includes shipments of over \$2 million by the following industry, but the exact figure is withheld to avoid disclosing individual company figures: Industry 3861.<sup>15</sup>Includes \$3,054 shipped by Industry 3433, Nonelectric Heating Equipment, as well as by the following industry, the shipments of which total over \$2 million, but are withheld to avoid disclosing individual company figures: Industry 3632.<sup>16</sup>Includes \$19,493 shipped by Industry 3433, Nonelectric Heating Equipment.<sup>17</sup>Includes \$2,720 shipped by Industry 3635, Household Vacuum Cleaners, and shipments by the following industries the value of which total over \$2 million each, but are withheld to avoid disclosing individual company figures: Industry 3432, and Industry 3632.<sup>18</sup>Includes the following product classes which total \$2 million or more each, but are withheld to avoid disclosing individual company figures: 34431, 34435, 34492, 34912, 35851, and 36350.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3631---	Household cooking equipment, total.....	.....	xxx	433,123	xxx	360,069
36311--	Electric household ranges and ovens and surface cooking unit equipment.....	.....	xxx	203,748	xxx	164,110
	Ranges (over 2-1/2 KW), excluding combination types:					
	Standard type:					
3631113	32 inches and under.....	1,000.....	406	51,489	1,155	158,053
3631117	Over 32 inches.....	do.....	335	52,896		
3631141	Apartment house type (ranges up to approximately 24 inches, with three or four burners and low oven).....	do.....	48	4,474	65	6,057
3631151	Built-in or stack-on ovens (broiler units only).....	.....	xxx	94,889	(1)	(1)
3631161	Surface cooking tops (one or more burners)(for built-in installation).....	.....			(2)	(2)
3631181	Parts and accessories for household electric ovens, ranges, and stoves.....	.....			(2)	(2)
36312--	Household ovens and ranges, equipment, and parts (except electric)	.....	xxx	229,375	xxx	195,959
	Domestic cooking stoves, ranges, and appliances, complete (except electric):					
	Reported in Census of Manufactures.....	.....	xxx	199,192	xxx	195,959
	Reported on Annual Form MA-34N.....	.....	xxx	196,863	xxx	(NA)
	Cooking stoves and ranges:					
	Gas:					
3631211	Standard ranges (over 25 inch cooking top and oven).....	No. of units..	1,157,718	124,914	1,467,801	144,629
3631213	Apartment ranges (25 inch cooking top and under).....	do.....	388,964	21,143	498,830	26,253
3631214	Built-ins.....	do.....	234,232	35,542	(NA)	(NA)
	Bungalow ranges:					
3631221	Gas and coal.....	do.....	4,329	594	17,112	2,413
3631229	All other.....	do.....	35,832	5,121	22,018	3,003
	Coal and wood:					
3631231	Ranges.....	do.....	29,974	1,950	51,116	3,558
3631235	Cook stoves.....	do.....	14,734	361	15,371	294
	Combination ranges (including ranges equipped with conversion burners):					
3631241	Gas and oil.....	do.....	1,452	281	14,328	2,476
3631245	Gas and coal.....	do.....			4,395	1,033
3631249	All other (including ranges equipped with conversion burners).....	do.....	2,986	495	3,142	519
	Kerosene, gasoline, and fuel oil:					
3631251	Kerosene ranges.....	do.....	(D)	(D)	43,211	2,766
3631253	Kerosene cook stoves.....	do.....	(D)	(D)	65,999	1,574
	Miscellaneous cooking appliances:					
3631215	Gas hot plate.....	do.....	51,976	352	22,821	235
3631255	Needle-valve stoves.....	do.....	749,244	6,110	437,896	1,821
3631258	Miscellaneous kerosene, gasoline, and fuel oil stoves.....	do.....			xxx	4,750
3631290	Domestic cooking stoves, ranges, and appliances, nsk.....	.....	xxx	...	xxx	635
3631298	Other household cooking equipment and parts for cooking equipment (except electric).....	.....	xxx	30,183	xxx	(5)
			1958		1954	
			Total production	Total shipments including inter-plant transfers	Total production	Total shipments including inter-plant transfers
			Quantity	Value	Quantity	Value
			(No. of units)	(No. of units) (\$1,000)	(No. of units)	(No. of units) (\$1,000)
3632---	Household refrigerators and home and farm freezers, total.....	xxx	xxx	729,170	xxx	745,444
36321--	Household refrigerators.....	3,037,780	3,153,256	551,164	3,387,102	3,536,839
	Household mechanical refrigerators (including combination refrigerator-freezers):					
	Complete units					
3632111	5-4 cu. ft. and under.....	31,234	28,110	3,690	43,429	5,199
3632112	5.5-6.4 cu. ft.....				59,818	8,490
3632113	6.5-7.4 cu. ft.....				165,617	22,453
3632114	7.5-8.4 cu. ft.....				950,031	114,639
3632115	8.5-9.4 cu. ft.....				421,139	74,219
3632116	9.5-10.4 cu. ft.....	269,010	265,833	35,635	574,582	107,446
3632117	10.5-11.4 cu. ft.....	743,908	781,370	113,146	587,684	118,107
3632121	11.5-12.4 cu. ft.....	687,415	716,968	144,116	561,737	527,518
3632122	12.5-13.4 cu. ft.....	269,812	289,861	57,744		
3632129	13.5 cu. ft. and over.....	410,458	434,721	120,175		
3632131	Range-refrigerator combinations.....	15,379	21,581	6,034	23,065	5,216

See footnotes at end of table.



## HOUSEHOLD APPLIANCES

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Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(No. of units)	(No. of units)	(\$1,000)	(No. of units)	(No. of units)	(\$1,000)
3632---	Household refrigerators and home and farm freezers--Continued						
36322--	Home and farm freezers.....	955,925	996,973	178,006	832,072	860,032	172,370
	Home and farm freezers, complete units (for freezing and/or storing frozen food):						
3632221	8.4 cu. ft. and under.....	20,636	19,704	2,621	45,634	47,352	5,873
3632222	8.5-10.4 cu. ft.....	59,603	60,968	7,682	189,670	186,557	31,626
3632223	10.5-12.4 cu. ft.....	133,427	137,654	20,235			
3632224	12.5-14.4 cu. ft.....	159,306	153,774	26,428			
3632225	14.5-15.4 cu. ft.....	136,750	144,356	24,131	340,110	358,204	70,673
3632226	15.5-16.4 cu. ft.....	48,674	60,002	10,476			
3632227	16.5-20.4 cu. ft.....	254,784	265,049	53,001			
3632229	20.5 cu. ft. and over.....	142,745	155,486	33,432	214,381	223,769	51,849
					42,277	44,150	12,349
		(1,000 units)	(1,000 units)		(1,000 units)	(1,000 units)	
3633---	Household laundry equipment, total.....	xxx	xxx	719,574	xxx	xxx	596,349
36331--	Household mechanical, washing machines, and dryers.....	xxx	xxx	672,213	xxx	xxx	533,711
	Washing machines, mechanical (standard size, electrically driven):						
3633131	Fully automatic.....	2,735	2,821	407,832	2,315	2,285	324,286
3633133	Semiautomatic.....				88	82	7,522
3633136	Nonautomatic wringer type and spinner.....				1,191	1,245	101,896
3633139	All other, including gasoline driven and small size.....	xxx	xxx	1,440	xxx	xxx	2,149
	Dryers, mechanical:						
3633151	Gas.....	376	393	46,791	242	246	28,907
3633155	Electric.....	821	864	92,928	646	661	68,951
3633181	Washer-dryer combinations (electric and gas).....	163	164	40,342	(NA)	(NA)	(NA)
3633185							
36332--	Other household laundry equipment.....	xxx	xxx	46,498	xxx	xxx	62,638
3633211	Ironers, mechanical, including table, cabinet, and portable.....	xxx	xxx	7,122	89	89	8,292
3633271	Other household laundry equipment, including wringers.....				xxx	xxx	16,489
3633298	Parts, accessories, and attachments for household laundry equipment.....				xxx	xxx	37,857
3633000	Household laundry equipment, nsk.....	xxx	xxx	863	xxx	xxx	...
Total shipments including interplant transfers							
		1958		1954			
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)		
3634---	Electric housewares and fans, total.....	xxx	543,790	xxx	563,931		
36341--	Fans, electric (except industrial type).....	xxx	77,053	xxx	88,359		
3634111	High pedestal.....	41	1,851	310	10,208		
	Desk and wall bracket:						
	Oscillating:						
3634131	Under 12-inch.....	515	3,947	1,210	9,467		
3634133	12-inch.....	257	3,336	904	11,502		
3634135	Over 12-inch.....	188	4,451	367	8,614		
3634151	Non-oscillating (all sizes).....	628	7,105	1,443	17,155		
3634161	Floor or hassock-type fans (all sizes).....	118	2,185	406	8,445		
	Window type propeller fans (household)						
	Permanent type (reversible and nonreversible)						
3634171	Under 20-inch.....	102	1,916	1,068	22,968		
3634175	20-inch.....	494	9,635				
3634178	Over 20-inch.....	11	491				
3634181	Portable (suitcase type), all sizes.....	556	12,676	1,068	22,968		
3634183	Roll-abouts (mounted on portable stand), all sizes.....	251	7,035				
3634184	Household and kitchen ventilating and exhaust.....	968	18,160				
3634198	Other electric fans.....	90	2,085				
3634100	Fans, electric, nsk.....	xxx	2,180	(NA)	(NA)		
3634211	Dry shavers (electric razors).....	4,855	54,091	3,957	53,809		
36343--	Other small household electric appliances.....	xxx	336,160	xxx	307,713		
3634312	Rotisseries and broilers (table).....	316	9,672	61,063	621,096		
	Electric coffeemakers (complete units) (vacuum, percolator, and urn):						
3634314	Automatic.....	3,406	36,882	3,269	34,752		
3634318	Nonautomatic.....						

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3634---	Electric housewares and fans--Continued				
36343--	Other small household electric appliances--Continued				
3634322	Deep fat fryers and sauce pans, electric.....	358	3,429	71,693	719,102
3634324	Ovens and roasters, electric, with and without broiler attachments..	xxx	(8)	xxx	8,150
3634329	Hot plates and disc stoves (1,650 watts or less) (except built-in units).....	771	4,689	946	3,586
3634336	Toasters, automatic.....	3,089	30,973	3,105	31,529
3634339	Waffle irons, sandwich grills, griddles, and combinations.....	848	9,416	892	9,224
3634342	Frying pans (excluding covers and controls shipped separately).....	3,227	31,939	(1)	(1)
	Air space heaters (portable room heaters only):				
3634343	Fan forced type.....	949	11,392	813	8,533
3634344	Other types, except fan forced (including convactor, radiant, and convactor-radiant).....	264	5,489	257	3,131
3634346	Air space heaters for fixed or permanent installations, all types...	472	9,703		
3634349	Other household type electric cooking and heating appliances, including such items as immersion heaters, faucet attachment water heaters, electric steam radiators, pressure cookers, casseroles, nonautomatic toasters, etc.....	xxx	13,363	xxx	1014,672
	Electric irons:				
3634352	Standard household, steam.....	1,347	6,717	3,921	34,119
3634361	Standard household other than steam, automatic type (thermostat controlled heat).....	3,535	34,773	1,855	10,566
3634369	Other electric irons (tailors', milliners', travel, boudoir, non- automatic standard household, etc.).....	303	1,904	443	2,428
	Household food preparation appliances:				
	Food mixers (including standard attachments sold together with mixers):				
3634371	Hand.....	1,767	17,666	1,274	12,041
3634375	Stand.....	819	15,982	1,591	35,436
3634376	Blenders (liquefiers).....	430	7,953		
3634378	Other household food preparation appliances, including drink mixers, whippers, juicers, grinders, slicers, and choppers.....	xxx	6,826	xxx	6,391
3634385	Electric bed coverings (including blankets, sheets, mattress covers and comforters).....	2,420	31,601	1,104	18,922
3634387	Heating pads (including foot warmers).....	1,899	6,289	1,672	5,192
3634398	Other electrical appliances (curling irons, knife sharpeners, vibrators, hand and face dryers, electric can openers, etc.).....	xxx	30,232	xxx	28,843
3634300	Small household appliances, nsk.....	xxx	9,270	xxx	...
36344--	Parts and attachments.....	xxx	55,858	xxx	110,940
3634411	Parts and accessories for other electric housewares and fans.....	xxx	51,549		
3634431	Electric controls for frying pans, and other household cooking appliances, shipped separately.....	779	4,309	xxx	1110,940
3634000	Electrical housewares and fans, nsk.....	xxx	20,628	xxx	3,110
		1958		1954	
		Total production	Total shipments including inter- plant transfers	Total production	Total shipments including inter- plant transfers
		Quantity	Value	Quantity	Value
		(1,000 units)	(1,000 units) (\$1,000)	(1,000 units)	(1,000 units) (\$1,000)
3635---	Household type vacuum cleaners, including attachments and cleaning tools and parts, total.....	xxx	155,571	xxx	138,774
3635011	Hand type.....	113	89	113	120
3635031	Upright tank, canister, and other general purpose household types....	3,002	3,144	2,594	2,616
3635051	Attachments or cleaning tools.....	xxx	139,551	xxx	12119,551
3635071	Parts for household type vacuum cleaners.....	xxx	13,879	xxx	1317,270
3635000	Household type vacuum cleaners, nsk.....	xxx	702	xxx	xxx
		(1,000 heads)	(1,000 heads)	(1,000 heads)	(1,000 heads)
3636---	Sewing machines, total.....	xxx	797,725	xxx	107,492
	Household sewing machines (including heads, for sale with cabinets or cases, and heads for sale separately):				
3636011	Electric cabinet.....	r322	r365	r363	r385
3636031	Electric portable.....	...	...	r332	r355
3636051	Nonelectric.....	...	...		
3636071	Industrial sewing machines (except shoe sole stitching machines).....	xxx	r75	xxx	r116
3636081	Sewing machine parts and attachments for household and industrial sewing machines (except cases and cabinets).....	xxx	43,091	xxx	xxx
3636000	Sewing machines, nsk.....	xxx	939	xxx	xxx

See footnotes at end of table.



## HOUSEHOLD APPLIANCES

36B-17

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production	Total shipments including inter-plant transfers		Total production	Total shipments including inter-plant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3639---	Household appliances, nec, total.....		xxx	xxx	341,482	xxx	xxx	268,594
36391--	Water heaters, electric:							
	Electric water heaters (for permanent installation).....		xxx	xxx	56,849	(NA)	799	48,214
	Storage:							
3639111	34 gallons and under.....	1,000...	(NA)	401	14,898	(NA)	296	12,493
3639113	35-54 gallons.....	...do...	(NA)	508	29,036	(NA)	389	24,289
3639115	55 gallons and over.....	...do...	(NA)	113	8,196	(NA)	114	9,144
3639198	Other types (including circulating and portable storage)....		(NA)	xxx	3,705	(NA)	xxx	879
3639100	Electric water heaters, nsk.....		xxx	xxx	1,014	xxx	xxx	1,409
36392--	Water heaters, except electric:							
	Reported in Census of Manufactures.....		xxx	xxx	153,538	xxx	xxx	138,364
	Reported on Annual Form MA-34N.....		xxx	xxx	162,178	xxx	xxx	(NA)
	Direct fired:							
	Gas:							
3639211	Underfired storage.....	Units...	(NA)	2,874,422	142,905	(NA)	2,360,480	122,832
3639212	Side arm.....	...do...	(NA)	39,883	1,841	(NA)	84,877	1,361
	Oil:							
3639214	Underfired storage.....	...do...	(NA)	30,658	3,289	(NA)	23,121	1,955
3639215	Side arm.....	...do...	(NA)	826	23	(NA)	3,035	66
	Coal or wood tank heaters:							
3639217	Cast iron.....	...do...	}	(NA)	3,295	(NA)	2,360	334
3639218	Steel.....	...do...						
	Indirect water heaters:							
	Storage, cast or coil type (less tank):							
3639251	20 G.P.H. and less.....	...do...	(NA)	4,620	43	}	(NA)	1,211
3639253	21 G.P.H. and over.....	...do...	(NA)	23,898	1,325			
3639261	Tanks (with or without generator coils).....	...do...	(NA)	4,400	3,015	(NA)	3,164	2,060
3639271	Generator coils with tank collar (sold without tank).....	...do...	(NA)	5,416	772	(NA)	(NA)	472
3639281	Instantaneous.....	...do...	(NA)	134,927	8,831	(NA)	120,287	5,808
3639200	Water heaters, except electric, nsk.....		xxx	xxx	...	xxx	xxx	2,265
36393--	Other household appliances and parts.....		xxx	xxx	131,095	xxx	xxx	82,016
	Dishwashing machines, household type:							
3639311	Dishwashers only.....	Units...	}	392,366	397,392	{	134,004 70,286	126,160 70,028
3639313	Dishwashers and sink combinations.....	...do...						
3639331	Floor waxing and polishing machines, household type.....	...do...	695,126	724,455	19,489	242,221	245,235	6,555
3639371	Disposers, waste food.....	...do...	660,777	741,057	26,772	411,473	412,149	18,726
3639381	Other household service machines.....		xxx	xxx	24,573	xxx	xxx	26,444
3639391	Parts and accessories for electric water heaters.....		xxx	xxx	5,458	xxx	xxx	(15)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>For 1954, built-in or stack-on ovens, surface cooking tops and frying pans, were included with other household type electric cooking and heating appliances which is now in Industry 3634. See code 3634349.<sup>2</sup>For 1954, parts and accessories for household electric ovens, ranges, and stoves were included with parts for electrical appliances, the major portion of which is now classified in Industry 3634. (See product class 36344.)<sup>3</sup>Quantity represents number of oven-broiler units. Value of shipments includes all surface cooking units.<sup>4</sup>Includes portable ovens, gasoline pressure, camp stoves, cabin stoves, solar stoves, pocket stoves, etc.<sup>5</sup>For 1954, other household cooking equipment and parts, except electric, were included with other cooking and heating equipment, except electric, with a value of \$50,445.<sup>6</sup>In 1954, an undetermined amount of rotisseries were included with other household type electric cooking and heating appliances.<sup>7</sup>In 1954, an undetermined amount of electric sauce pans were included with other household type electric cooking and heating appliances.<sup>8</sup>For 1958, ovens and roasters are included with other electrical appliances.<sup>9</sup>For 1954, sandwich grills and griddles, were included with other household type electric cooking and heating appliances.<sup>10</sup>See footnotes 1, 6, and 7 above.<sup>11</sup>See footnotes 2 and 15 above.<sup>12</sup>Includes value of attachments and cleaning tools shipped with vacuum cleaners, as well as those shipped separately.<sup>13</sup>1954 figures include value for parts of both household and commercial type vacuum cleaners.<sup>14</sup>Includes the value of shipments of household sewing machines.<sup>15</sup>For 1954, parts and accessories for electric water heaters were included with parts and accessories for electrical appliances. See product class 36344.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
<b>Electric household ranges and ovens (36311):</b>	1958 <sup>1</sup>		<b>Home and farm freezers (36322)--Continued</b>	1958 <sup>1</sup>	1954	<b>Parts and attachments (36344)--Continued</b>	1958 <sup>1</sup>	
United States, total.....	203,892		East North Central.....	79,777	86,844	North Central.....	35,222	
North Central.....	134,601		Michigan.....	19,969	17,375	Illinois.....	15,842	
Ohio.....	74,099		Wisconsin.....	22,297	( <sup>2</sup> )	South.....	4,376	
Illinois.....	43,855			Value of shipments		Pacific.....	2,567	
All other regions.....	69,291		<b>Household mechanical washing machines, dryers, and washer-dryer combinations (36331)</b>	1958		California.....	2,567	
Tennessee.....	10,390		United States, total.....	667,411		<b>Water heaters, electric (36391):</b>		
<b>Household ovens and ranges (except electric) (36312):</b>			North Central.....	539,762		United States, total.....	56,849	
United States, total.....	228,659		Ohio.....	226,771		Northeast.....	6,819	
Northeast.....	36,874		Illinois.....	67,481		North Central.....	33,188	
New York.....	17,411		<b>Fans, electric (except industrial type) (36341):</b>	Value of shipments		Ohio.....	6,733	
Pennsylvania.....	16,751		United States, total:			Illinois.....	8,710	
East North Central.....	88,601		1958.....	77,053		Michigan.....	5,903	
Ohio.....	29,583		1957.....	54,158		South Atlantic.....	4,385	
Illinois.....	53,717		1956.....	84,353		All other regions.....	12,457	
West North Central.....	6,954		1955.....	74,504		Tennessee.....	5,598	
South Atlantic.....	1,315		1954.....	88,359		California.....	2,630	
All other regions.....	94,915		1953.....	94,635		<b>Water heaters, except electric (36392):</b>	Value of shipments	
Tennessee.....	50,700		1952.....	60,316		United States, total:		
<b>Household mechanical refrigerators (36321):</b>	Value of shipments		1951.....	56,058		1958.....	153,538	
United States, total:			1950.....	60,402		1947.....	169,764	
1958.....	551,164		1947.....	48,656		1956.....	162,097	
1957.....	584,546			1958 <sup>1</sup> 1954		1955.....	154,603	
1956.....	637,069		Northeast.....	28,909	32,352	1954.....	138,364	
1955.....	712,365		North Central.....	34,856	49,019	1953.....	130,790	
1954.....	574,356		Illinois.....	2,962	4,295	1952.....	107,968	
1953.....	705,460			Value of shipments		1951.....	115,639	
1952.....	637,433		<b>Other small household electric appliances (36343):</b>	1958 <sup>1</sup>		1950.....	125,687	
1951.....	729,844		United States, total.....	336,160		1947.....	113,669	
1950.....	925,131		Northeast.....	98,762			1958 <sup>1</sup> 1954	
1949.....	668,911		Connecticut.....	27,702		Northeast.....	31,832	21,616
1947.....	521,572		New York.....	42,747		New York.....	6,566	2,859
East North Central.....	402,569	456,642	North Central.....	155,364		Pennsylvania.....	21,279	14,640
Michigan.....	70,266	( <sup>2</sup> )	Ohio.....	21,985		North Central.....	69,991	57,496
Wisconsin.....	5,462	( <sup>2</sup> )	Illinois.....	79,917		Ohio.....	7,057	5,487
All other regions.....	148,595	( <sup>2</sup> )	Wisconsin.....	34,081		Illinois.....	39,390	33,337
New York.....	3,292	( <sup>2</sup> )	Missouri.....	12,795		Michigan.....	15,200	9,715
<b>Home and farm freezers (36322):</b>	Value of shipments		South Atlantic.....	22,940		South.....	16,671	( <sup>2</sup> )
United States, total:			North Carolina.....	20,424		Texas.....	4,356	( <sup>2</sup> )
1958.....	178,006		South Central.....	22,983		Pacific.....	35,044	( <sup>2</sup> )
1957.....	141,039		West.....	36,111		California.....	34,403	( <sup>2</sup> )
1956.....	178,855		California.....	34,139			Value of shipments	
1955.....	194,176		<b>Parts and attachments for small household electric appliances (36344):</b>			Other household appliances and parts (36393):	1958 <sup>1</sup>	
1954.....	172,370		United States, total.....	55,858		United States, total.....	131,095	
1953.....	211,958		Northeast.....	13,693		New England.....	7,022	
1952.....	211,596		New York.....	4,860		Middle Atlantic.....	11,284	
1951.....	162,318					North Central.....	49,231	
1950.....	132,469					Ohio.....	18,382	
1947.....	100,625					Illinois.....	5,014	

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 36311, New York, Pennsylvania, Michigan, Wisconsin, Maryland, Kentucky, and California; 36312, Massachusetts, Indiana, Wisconsin, Missouri, Kansas, Maryland, Kentucky, Alabama, and California; 36321, Ohio, Indiana, Illinois, Minnesota, Iowa, Kentucky, and California; 36322, New York, Ohio, Indiana, Illinois, Minnesota, Iowa, and Kentucky; 36331, New York, Michigan, Wisconsin, Minnesota, Iowa, Kentucky, Tennessee, and California; 36341, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Ohio, North Carolina, Tennessee, and California; 36343, Massachusetts, Pennsylvania, Indiana, Delaware, Kentucky, Tennessee, Arkansas, and Washington; 36344, Connecticut, Pennsylvania, Ohio, Wisconsin, Kentucky, and Tennessee; 36391, New Jersey, Pennsylvania, Wisconsin, Missouri, Maryland, Washington, and Oregon; 36392, Rhode Island, New Jersey, Indiana, Maryland, Kentucky, and Tennessee; 36393, Massachusetts, New Jersey, Pennsylvania, Indiana, Michigan, Wisconsin, Maryland, Kentucky, and California.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.



Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958 <sup>1</sup>			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3631—HOUSEHOLD COOKING EQUIPMENT		INDUSTRY 3632—HOUSEHOLD REFRIGERATORS	
	Materials, parts, containers and supplies, total.....		xxx	173,559	xxx	507,061
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	13,740	2,302	9,418	2,076
331212	Sheet and strip.....	do.....	223,586	35,568	465,645	91,980
331217	Wire and wire products.....	do.....	3,930	1,283		
331213	Plates.....	do.....				
331215	Structural shapes.....	do.....				
331219	All other carbon steel mill shapes and forms.....	do.....	3,168	630	7,937	2,520
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....				
331225	All other alloy steel mill shapes and forms.....	do.....	3,308	5,152	3,044	1,471
331231	Stainless steel mill shapes and forms.....	do.....			2,370	2,988
	Copper and copper-base alloy:					
363111	Insulated wire and cable.....	1,000 lbs. copper content	r 678	r 724	1,318	1,160
335111	Bare wire for electrical conduction.....	1,000 lbs.....	xxx	xxx		
335119	All other copper and copper-base mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....	297	190	8,801	7,572
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate and foil.....	do.....	745	444	25,092	12,075
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	456	252	6,811	4,833
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable) <sup>2</sup> .....	Short tons....	7,351	2,838	14,831	2,974
336121	Copper and copper-base alloy.....	1,000 lbs.....	69	78	xxx	xxx
336111	Aluminum and aluminum-base alloy.....	do.....	r 1,038	637	xxx	xxx
339111	Iron and steel forgings.....	Short tons....	xxx	xxx	860	555
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	Thousands....	344	1,961	r 2,482	xxx
361419	All other fractional horsepower electric motors.....	do.....	161	1,204	106	20,519
361431	Integral horsepower electric motors and generators (1 horsepower and over)	do.....	xxx	xxx	xxx	2,805
359311	Ball and roller bearings.....	do.....	xxx	150	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....	do.....	xxx	r 115,049	xxx	347,522
973000	Materials, components, parts, containers and supplies consumed, nsk.....	do.....	xxx	5,097	xxx	6,011

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3633—HOUSEHOLD LAUNDRY EQUIPMENT			
	Materials, parts, containers and supplies, total.....		xxx	408,083	xxx	311,910
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	21,715	4,672	23,596	4,076
331212	Sheet and strip.....	do.....	337,127	50,955	237,806	30,938
331213	Plates.....	do.....				
331215	Structural shapes.....	do.....				
331217	Wire and wire products.....	do.....				
331219	All other carbon steel mill shapes and forms.....	do.....	2,416	1,169	835	642
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....				
331225	All other alloy steel mill shapes and forms.....	do.....	970	531	1,395	613
331231	Stainless steel mill shapes and forms.....	do.....	578	745	1,048	978
	Copper and copper-base alloy:					
363111	Insulated wire and cable.....	1,000 lbs. copper content	3,004	2,796	950	693
335111	Bare wire for electrical conduction.....	1,000 lbs.....				
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....	610	331	1,488	720
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate and foil.....	do.....	3,728	2,176		
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	57	51	3,420	1,428
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	Short tons....	28,948	8,854	28,892	7,515
336111	Aluminum and aluminum-base alloy.....	1,000 lbs.....	10,133	5,564	23,587	12,752
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	Thousands....	1,815	3,001		
361419	All other fractional horsepower electric motors.....	do.....	4,762	53,135	3,720	34,663
970099	All other materials and components, parts, containers, and supplies consumed.....	do.....	xxx	271,817	xxx	216,892
973000	Materials, components, parts, containers and supplies consumed, nsk.....	do.....	xxx	2,286	xxx	(NA)

See footnotes at end of table.

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958 <sup>1</sup>					
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3634—ELECTRICAL HOUSE-WARES AND FANS		INDUSTRY 3635—HOUSEHOLD VACUUM CLEANERS		INDUSTRY 3639—HOUSEHOLD APPLIANCES, NEC	
	Materials, components, parts, supplies and containers, total.....		xxx	212,722	xxx	52,771	xxx	195,403
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons	5,807	1,053	709	175	5,128	897
331212	Sheet and strip.....	do.	40,972	8,854	14,260	2,812	281,853	40,592
331213	Plates.....	do.	xxx	xxx	xxx	xxx	5,378	763
331215	Structural shapes.....	do.			xxx	xxx		
331219	All other carbon steel mill shapes and forms.....	do.	2,065	1,004			8,574	2,512
331217	Wire and wire products.....	do.	1,707	1,083	3,269	1,217	1,799	648
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do.						
331225	All other alloy steel mill shapes and forms.....	do.	2,556	855			1,181	1,259
331231	Stainless steel mill shapes and forms.....	do.	1,844	2,330	230	182		
	Copper and copper-base alloy:							
363111	Insulated wire and cable.....	1,000 lbs. copper content..	14,564	14,491	145	424	815	696
335111	Bare wire for electrical conduction.....	1,000 lbs.	982	730	1,432	736	286	199
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)..	do.	3,495	2,904	xxx	xxx	4,387	2,871
	Aluminum and aluminum-base alloy:							
335257	Sheet, plate and foil.....	do.	9,641	4,424	1,037	578	3,384	1,639
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)..	do.	2,822	1,520	1,111	745	1,311	660
	Castings (rough and semifinished, received from foundry):							
332011	Iron (gray and malleable).....	Short tons	xxx	xxx	xxx	xxx	8,781	3,186
332311	Steel.....	do.	xxx	xxx	xxx	xxx	844	385
336121	Copper and copper-base alloy.....	1,000 lbs.	xxx	xxx	xxx	xxx	1,204	803
336111	Aluminum and aluminum-base alloy.....	do.	9,105	8,228	4,100	3,715	2,203	1,987
	Fractional horsepower electric motors (under 1 horsepower):							
361412	Timing motors, synchronous and subsynchronous <sup>4</sup> .....	Thousands	545	1,890	xxx	xxx	171	845
361419	All other fractional horsepower electric motors <sup>5,6,7</sup> .....	do.	2,228	6,342	897	5,217	1,354	10,722
260091	Paper and paperboard containers.....		xxx	5,761	xxx	xxx	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	124,899	xxx	35,153	xxx	121,589
973000	Materials, components, parts, containers and supplies consumed, nsk.....		xxx	36,354	xxx	1,817	xxx	3,150

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3636—SEWING MACHINES			
	Materials, components, parts, containers and supplies, total.....		xxx	32,356	xxx	33,860
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons			3,989	892
331212	Sheet and strip.....	do.	7,003	1,924	3,686	732
331219	All other carbon steel mill shapes and forms.....	do.			388	127
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.	87	55	79	76
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	do.	1,896	1,092	3,669	2,314
361419	Fractional horsepower electric motors, excluding timing motors, synchronous and subsynchronous.....	Thousands	106	776	583	3,359
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	27,792	xxx	26,360
973000	Materials, parts, containers and supplies, nsk.....		xxx	717	xxx	(NA)

NA Not available. <sup>†</sup>Revised.<sup>1</sup>Data for 1954 not available.<sup>2</sup>In addition establishments in Industry 3631 produced 7,105 short tons of iron castings for incorporation into other items produced at the same establishment.<sup>3</sup>For Industry 3632 no structural shapes carbon steel were used.<sup>4</sup>In addition establishments in Industry 3634 produced 763 thousand timing motors, synchronous and subsynchronous for incorporation into other items produced at the same establishment.<sup>5</sup>In addition establishments in Industry 3634 produced 5,527 thousand all other fractional horsepower electric motors for incorporation into other items produced at the same establishment. Also 4,855 thousand motors and vibrators were produced and incorporated into and/or purchased and incorporated into dry shavers (electric razors).<sup>6</sup>In addition establishments in Industry 3635 produced 1,619 thousand fractional horsepower electric motors for incorporation into other items produced at the same establishment.<sup>7</sup>In addition establishments in Industry 3639 produced 435 thousand all other fractional horsepower electric motors for incorporation into other items produced at the same establishment.<sup>8</sup>Includes timing motors, synchronous and subsynchronous.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3631	HOUSEHOLD COOKING EQUIPMENT (entire industry).....	69	18,152	89,239	14,101	28,160	60,331	181,091	184,950	364,852	4,002
	Establishments with:										
	90% or more specialization.....	43	10,057	52,623	7,765	15,567	33,995	117,981	116,750	232,166	2,375
	75-89% specialization.....	10	3,970	18,661	2,916	5,685	12,969	33,606	30,909	65,418	611
36311	Electric household ranges and ovens (primary product class of estab.)..	16	6,454	36,814	4,613	9,156	22,576	81,880	71,665	153,606	1,020
36312	Household ranges and ovens not electric (primary product class of estab.).....	53	11,698	52,425	9,488	19,004	37,755	99,211	113,285	211,246	2,982
	Establishments with:										
	90% or more specialization....	31	6,011	28,329	4,908	10,007	20,101	57,951	65,841	121,864	1,591
	75-89% specialization.....	7	2,641	12,125	1,898	3,660	8,281	21,578	17,022	39,184	( <sup>1</sup> )
3632	HOUSEHOLD REFRIGERATORS (entire industry).....	26	41,493	221,439	33,177	65,592	167,352	433,369	537,586	1,002,302	9,870
	Establishments with:										
	90% or more specialization.....	13	10,364	52,981	8,348	15,919	38,543	127,823	173,713	313,248	3,350
	75-89% specialization.....	9	8,694	43,516	7,066	13,608	34,104	79,731	108,447	192,698	1,921
36321	Household mechanical refrigerators (Primary product class of estab.)..	16	35,397	193,803	28,334	56,635	147,808	378,344	439,566	846,084	9,229
	Establishments with:										
	75-89% specialization.....	7	10,022	53,160	8,337	15,740	41,250	133,839	123,550	261,862	1,382
36322	Home and farm freezers (primary product class of estab.).....	10	6,096	27,636	4,843	8,957	19,544	55,025	98,020	156,218	641
3633	HOUSEHOLD LAUNDRY EQUIPMENT (entire industry).....	39	24,597	134,263	18,021	35,751	89,586	324,480	427,180	773,920	7,219
	Establishments with:										
	90% or more specialization.....	30	16,482	89,123	12,223	24,038	60,371	219,585	341,754	579,521	5,526
36331	Household washing machines and dryers (primary product class of estab.).....	24	23,394	128,230	17,085	33,991	85,748	315,782	412,536	7720,113	6,876
	Establishments with:										
	90% or more specialization....	18	15,435	83,878	11,433	22,528	57,032	212,128	326,274	556,310	5,315
36332	Other household laundry equipment and parts (primary product class of estab.).....	11	1,149	5,830	895	1,694	3,696	8,491	14,131	18,402	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	5	438	2,380	320	544	1,366	3,858	4,531	8,589	( <sup>1</sup> )
3634	ELECTRICAL HOUSEWARES AND FANS (entire industry).....	311	29,150	128,850	22,477	42,804	84,557	301,033	245,105	559,090	9,985
	Establishments with:										
	90% or more specialization.....	264	14,078	55,574	11,477	21,701	39,062	161,290	127,101	294,536	4,182
	75-89% specialization.....	15	7,578	37,667	5,596	10,361	23,967	73,861	60,260	137,101	3,526
36341	Fans, electric (except industrial type) (primary product class of estab.).....	23	3,603	17,194	2,688	5,436	10,167	38,686	29,975	72,322	1,970
	Establishments with:										
	90% or more specialization....	9	192	769	165	343	645	1,266	1,846	3,143	( <sup>1</sup> )
	75-89% specialization.....	6	1,363	6,753	846	1,697	3,393	14,840	9,831	28,486	1,245
36343	Other small electrical household appliances (primary product class of estab.).....	167	22,098	97,121	17,045	32,134	64,291	206,535	184,090	399,360	6,862
	Establishments with:										
	90% or more specialization....	120	6,396	23,154	5,452	9,844	17,304	66,492	56,160	122,435	1,426
	75-89% specialization.....	23	4,889	19,489	3,888	7,474	13,386	39,684	48,011	88,601	876
3635	HOUSEHOLD VACUUM CLEANERS (entire industry).....	27	5,330	29,863	3,750	7,454	17,956	84,180	55,359	142,020	2,217
	Establishments with:										
	90% or more specialization.....	22	4,054	23,305	3,005	6,005	15,136	75,491	42,634	119,796	2,004
3639	HOUSEHOLD APPLIANCES, NEC (entire industry).....	94	14,622	79,658	10,102	19,985	47,367	162,664	212,004	378,758	4,365
	Establishments with:										
	90% or more specialization.....	62	5,666	30,385	3,938	7,732	16,653	75,589	94,993	170,669	1,914
	75-89% specialization.....	11	3,045	16,609	2,076	4,019	10,099	28,436	44,219	73,034	689
36391	Water heaters, electric (primary product class of estab.)..	16	1,102	5,482	796	1,604	3,122	8,999	14,362	23,612	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	8	206	812	159	332	536	1,895	4,604	6,427	( <sup>1</sup> )
36392	Water heaters, except electric (primary product class of estab.).....	51	8,817	48,503	6,112	12,352	30,464	81,023	130,797	214,578	2,707
	Establishments with:										
	90% or more specialization....	25	1,325	6,445	916	1,787	3,920	10,971	21,313	32,375	560
	75-89% specialization.....	5	315	1,582	232	444	783	3,166	5,097	8,368	( <sup>1</sup> )
36393	Other household appliances and parts (primary product class of estab.)..	27	4,703	25,673	3,194	6,029	13,781	72,642	66,845	140,568	1,359
	Establishments with:										
	90% or more specialization....	19	2,441	13,987	1,605	3,189	6,576	43,986	39,428	83,368	759

<sup>2</sup>Revised.

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation											
	Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation (1,000)			
	Total	Number of production workers			Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY—3631 HOUSEHOLD COOKING EQUIPMENT												
Total, all operations.....	xxx	xxx	xxx	xxx	12,300	xxx	xxx	xxx	24,194	xxx	xxx	xxx
Ferrous foundry.....	12	...	...	12	831	...	...	831	1,683	...	...	1,683
Nonferrous foundry (except die casting)...	1	...	...	1	(D)	...	...	(D)	(D)	...	...	(D)
Electroplating.....	12	2	7	3	171	(D)	(D)	85	329	(D)	(D)	159
Galvanizing and other hot dip coating.....	2	1	1	...	(D)	(D)	(D)	...	(D)	...	(D)	...
Heat treating and annealing.....	5	2	2	1	38	(D)	(D)	(D)	79	(D)	(D)	(D)
Automatic screw machine department.....	3	1	2	...	(D)	(D)	(D)	...	(D)	(D)	(D)	...
Machine shop.....	23	8	11	4	252	16	118	118	554	25	257	272
Tool and die shop.....	20	8	6	6	290	17	55	218	569	27	116	426
Foundry pattern shop.....	8	6	1	1	37	(D)	(D)	(D)	37	(D)	(D)	(D)
Plate or structural fabrication.....	1	...	...	1	(D)	...	...	(D)	(D)	...	...	(D)
Stamping, blanking, and forming.....	44	4	9	31	2,663	11	108	2,544	5,223	6	226	4,991
Painting, lacquering, and enameling.....	42	11	7	24	1,883	19	75	1,789	3,716	28	157	3,531
Plastics molding.....	1	...	1	...	(D)	...	(D)	...	(D)	...	(D)	...
Assembly of product.....	45	7	5	33	3,234	23	58	3,153	6,309	54	102	6,153
Shipping department (including packing and crating).....	42	18	14	10	514	46	142	326	1,044	83	269	692
All other operations.....	30	1	9	20	2,116	1	85	2,030	4,174	1	174	3,999
INDUSTRY—3632 HOUSEHOLD REFRIGERATORS												
Electroplating.....	4	1	...	3	175	(D)	...	(D)	xxx	xxx	xxx	xxx
Galvanizing and other hot dip coating.....	2	2	...	...	(D)	(D)	...	...	xxx	xxx	xxx	xxx
Heat treating and annealing.....	4	1	3	...	43	(D)	(D)	...	xxx	xxx	xxx	xxx
Automatic screw machine department.....	4	1	1	2	115	(D)	(D)	(D)	xxx	xxx	xxx	xxx
Machine shop.....	9	1	3	5	566	(D)	(D)	524	xxx	xxx	xxx	xxx
Tool and die shop.....	15	6	2	7	1,338	(D)	(D)	1,295	xxx	xxx	xxx	xxx
Foundry pattern shop.....	1	...	1	...	(D)	...	(D)	...	xxx	xxx	xxx	xxx
Stamping, blanking, and forming.....	23	...	2	21	3,303	...	(D)	(D)	xxx	xxx	xxx	xxx
Painting, lacquering, and enameling.....	24	1	8	15	1,821	(D)	(D)	1,755	xxx	xxx	xxx	xxx
INDUSTRY—3633 HOUSEHOLD LAUNDRY EQUIPMENT												
Nonferrous foundry (except die casting)...	2	2	...	...	(D)	(D)	...	...	xxx	xxx	xxx	xxx
Nonferrous die casting.....	4	3	...	1	32	(D)	...	(D)	xxx	xxx	xxx	xxx
Electroplating.....	7	1	5	1	93	(D)	(D)	(D)	xxx	xxx	xxx	xxx
Heat treating and annealing.....	13	8	5	...	53	11	42	...	xxx	xxx	xxx	xxx
Automatic screw machine department.....	15	6	6	3	209	10	48	151	xxx	xxx	xxx	xxx
Machine shop.....	26	3	5	18	1,292	9	51	1,232	xxx	xxx	xxx	xxx
Tool and die shop.....	25	7	7	11	766	12	97	657	xxx	xxx	xxx	xxx
Foundry pattern shop.....	3	3	...	...	6	6	...	...	xxx	xxx	xxx	xxx
Plate or structural fabrication.....	5	3	...	2	80	(D)	...	(D)	xxx	xxx	xxx	xxx
Stamping, blanking, and forming.....	26	2	6	18	2,232	(D)	(D)	2,164	xxx	xxx	xxx	xxx
Painting, lacquering, and enameling.....	27	9	2	16	1,998	(D)	(D)	1,958	xxx	xxx	xxx	xxx
INDUSTRY—3634 ELECTRIC HOUSEWARES AND FANS												
Total, all operations.....	xxx	xxx	xxx	xxx	16,717	xxx	xxx	xxx	31,396	xxx	xxx	xxx
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)	(D)	...	...	(D)
Nonferrous foundry (except die casting)...	4	1	1	2	100	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Electroplating.....	26	7	11	8	642	16	113	513	1,143	25	202	916
Heat treating and annealing.....	12	8	4	...	63	15	48	...	109	21	88	...
Automatic screw machine department.....	8	2	2	4	149	(D)	(D)	131	280	(D)	(D)	248
Machine shop.....	38	18	9	11	1,237	40	86	1,111	2,306	52	135	2,119
Tool and die shop.....	33	11	13	9	606	29	179	398	1,185	46	346	793
Plate or structural fabrication.....	3	2	1	...	(D)	(D)	(D)	...	(D)	(D)	(D)	...
Stamping, blanking, and forming.....	57	17	17	23	1,352	37	200	1,115	2,400	51	372	1,977
Painting, lacquering, and enameling.....	44	19	19	6	396	36	194	166	741	60	356	325
Plastics molding.....	12	2	8	2	207	(D)	83	(D)	401	(D)	148	(D)
Assembly of product.....	67	3	15	49	7,809	4	170	7,635	14,254	8	341	13,905
Shipping department (including packing and crating).....	65	29	29	7	838	49	279	510	1,579	88	520	971
All other operations.....	36	6	9	21	3,239	12	106	3,121	5,905	22	202	5,681
INDUSTRY—3635 HOUSEHOLD VACUUM CLEANERS												
Nonferrous die casting.....	2	...	1	1	(D)	...	(D)	(D)	xxx	xxx	xxx	xxx
Electroplating.....	3	...	2	1	52	...	(D)	(D)	xxx	xxx	xxx	xxx
Heat treating and annealing.....	4	1	2	1	57	(D)	(D)	(D)	xxx	xxx	xxx	xxx
Automatic screw machine department.....	4	1	2	1	57	(D)	(D)	(D)	xxx	xxx	xxx	xxx
Machine shop.....	6	...	2	4	160	...	(D)	(D)	xxx	xxx	xxx	xxx
Tool and die shop.....	6	1	1	4	236	(D)	(D)	(D)	xxx	xxx	xxx	xxx
Foundry pattern shop.....	1	1	...	...	(D)	(D)	...	...	xxx	xxx	xxx	xxx
Stamping, blanking, and forming.....	8	2	1	5	300	(D)	(D)	287	xxx	xxx	xxx	xxx
Painting, lacquering, and enameling.....	7	3	2	2	72	4	(D)	(D)	xxx	xxx	xxx	xxx

See footnotes at end of table.



## HOUSEHOLD APPLIANCES

36B-23

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation											
	Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation (1,000)			
	Total	Number of production workers			Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY—3636 SEWING MACHINES												
Nonferrous foundry (except die casting)...	1	...	...	1	(D)	...	...	(D)	xxx	xxx	xxx	xxx
Nonferrous die casting.....	1	...	...	1	(D)	...	...	(D)	xxx	xxx	xxx	xxx
Forging.....	2	1	1	...	(D)	(D)	(D)	...	xxx	xxx	xxx	xxx
Electroplating.....	8	6	1	1	168	(D)	(D)	(D)	xxx	xxx	xxx	xxx
Heat treating and annealing.....	9	5	3	1	90	10	(D)	(D)	xxx	xxx	xxx	xxx
Automatic screw machine department.....	8	4	2	2	310	10	(D)	(D)	xxx	xxx	xxx	xxx
Machine shop.....	33	7	18	8	1,148	21	178	949	xxx	xxx	xxx	xxx
Tool and die shop.....	13	5	6	2	190	14	(D)	(D)	xxx	xxx	xxx	xxx
Foundry pattern shop.....	2	1	1	...	(D)	(D)	(D)	...	xxx	xxx	xxx	xxx
Stamping, blanking, and forming.....	14	11	1	2	362	18	(D)	(D)	xxx	xxx	xxx	xxx
Painting, lacquering, and enameling.....	12	9	1	2	137	14	(D)	(D)	xxx	xxx	xxx	xxx
INDUSTRY—3639 HOUSEHOLD APPLIANCES, NEC												
Electroplating.....	2	1	1	...	(D)	(D)	(D)	...	xxx	xxx	xxx	xxx
Heat treating and annealing.....	5	5	...	...	10	10	...	...	xxx	xxx	xxx	xxx
Automatic screw machine department.....	7	7	...	...	12	12	...	...	xxx	xxx	xxx	xxx
Machine shop.....	36	12	18	6	475	25	152	298	xxx	xxx	xxx	xxx
Tool and die shop.....	20	10	9	1	150	21	(D)	(D)	xxx	xxx	xxx	xxx
Plate or structural fabrication.....	8	3	1	4	422	(D)	(D)	406	xxx	xxx	xxx	xxx
Stamping, blanking, and forming.....	52	11	26	15	1,162	23	250	889	xxx	xxx	xxx	xxx
Painting, lacquering, and enameling.....	58	33	18	7	520	72	147	301	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing the operations of individual companies.

Note: Very small establishments were not requested to report their metal working operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table above.

Item	Industry						
	3631	3632	3633	3634	3635	3636	3639
Total number of establishments in the industry.....	69	26	39	311	27	85	94
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	55	24	38	288	21	73	r58
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	85-90	95-100	95-100	95-100	95-100	95-100	80-85

r Revised.





# Electric Lighting and Wiring Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3641—Electric Lamps
- 3642—Lighting Fixtures
- 3643—Current Carrying Wiring Devices
- 3644—Noncurrent Carrying Wiring Devices

### 3641—Electric Lamps

This industry comprises establishments primarily engaged in manufacturing electric bulbs, tubes and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, electrotherapeutic lamps, units for ultra violet and infrared radiation and other electric light sources. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in Industry 3229; and lamp components, such as filaments, supports, lead-in wires and cold cathode fluorescent lamp electrodes in Industry 3699. For a detailed list of products of Industry 3641, refer to table 6A, product codes 3641011 to 3641063.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3641 from code number 3651 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Electric Lamps Industry in 1958 totaled \$418 million. This included shipments of electric lamps (primary products) valued at \$384 million, shipments of other products (secondary products) valued at \$25 million, and miscellaneous receipts (mainly resales) of \$9 million.

This industry's shipments of electric lamps (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was also 94 percent.

Industry 3641 shipments of electric lamps (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$394 million shipped by all industries. In 1954, the coverage ratio was 99 percent.

### 3642—Lighting Fixtures

This industry comprises establishments primarily engaged in manufacturing lighting fixtures and equipment of any type, including electric and gas lighting fixtures; carbide, kerosene and gasoline lamps; and metal reflectors and fittings. Establishments primarily engaged in producing glassware for lighting fixtures are classified in Major Group 32; electric light bulbs, tubes and related light sources in Industry 3641. For a detailed list of products of Industry 3642, refer to table 6A, product codes 3642111 to 3642691.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3642 from code number

3471 in the previous classification system but were only slightly changed as to content. Ultraviolet and infrared health lamp fixtures (formerly classified in Industry 3693, old SIC), X-Ray and Therapeutic Apparatus are now included in new Industry 3642, Lighting Fixtures.

Value of shipments and other receipts of the Lighting Fixtures Industry in 1958 totaled \$827 million. This included shipments of lighting fixtures (primary products) valued at \$721 million, shipments of other products (secondary products) valued at \$70 million, and miscellaneous receipts (mainly resales) of \$36 million.

This industry's shipments of lighting fixtures (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 90 percent. Secondary products shipped by this industry in 1958 included mirrors, fabricated structural iron and steel, specialty transformers, capacitors for industrial use, and electric lamp bulbs.

While the primary products of the industry include residential, commercial, institutional and industrial type fixtures, vehicular lighting equipment, floodlighting equipment and other lighting equipment, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 30 percent of the total industry shipments are represented by plants specializing in 36421, Residential type electric fixtures; 24 percent in 36422, Commercial and institutional type electric fixtures; 5 percent in 36423, Industrial type electric fixtures; 15 percent in 36424, Vehicular lighting equipment; 13 percent in 36425, Floodlighting equipment; and 6 percent in 36426, Other lighting equipment.

Industry 3642 shipments of lighting fixtures (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$770 million shipped by all industries. In 1954, the coverage ratio was 90 percent. Other industries shipping lighting fixtures (primary products) consisted of over \$8 million by Industry 3644, Non-current Carrying Wiring Devices, and over \$2 million each by Industry 3433, Nonelectric Heating Equipment and Industry 3585, Refrigeration Machinery.

### 3643—Current Carrying Wiring Devices

This industry comprises establishments primarily engaged in manufacturing current carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley line material, rail bonds for both propulsion and signal circuits, lightning arrestors, and other lightning protective equipment. For a detailed list of products of Industry 3643, refer to table 6A, product codes 3643001 to 3643098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.



Sixty-one percent of all employees formerly classified in Industry 3611 (old SIC), Wiring Devices and Supplies, are now classified in new Industry 3643, Current Carrying Wiring Devices. In addition, approximately 4,000 employees formerly classified in Industry 3661 (old SIC), Radios and Related Products, are now classified in new Industry 3643. This is mostly a result of the reclassification of connectors for electronic application.

These connectors, formerly classified in old Industry 3661, Radios and Related Products, are now included in new Industry 3643, Current Carrying Wiring Devices. Also, lightning rods, formerly classified in old Industry 3441, Structural and Ornamental Products, are now classified in new Industry 3643.

Value of shipments and other receipts of the Current Carrying Wiring Devices Industry in 1958 totaled \$486 million. This included shipments of current carrying wiring devices (primary products) valued at \$402 million, shipments of other products (secondary products) valued at \$63 million, and miscellaneous receipts (mainly resales) of \$21 million.

This industry's shipments of current carrying wiring devices (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted of appliance wire and cord, \$8 million, and over \$2 million of the following products: Rolling, Drawing and Extruding of Nonferrous Metal; Industrial Controls; and Resistance Welders.

Industry 3643 shipments of current carrying wiring devices (primary products) in 1958 represented 79 percent (coverage ratio) of these products valued at \$509 million shipped by all industries. Other industries shipping current carrying wiring devices (primary products) consisted of Industry 3644, Noncurrent Carrying Wiring Devices, \$30 million; Industry 3622, Industrial Controls, \$8 million; Industry 3679, Electronic Components and Accessories, N.E.C., \$8 million; Industry 3699, Electrical Machinery, Equipment and Supplies, \$3 million; and Industry 3611, Electrical Measuring Instruments, \$1 million. Additional industries shipping current carrying wiring devices are indicated in a footnote to table 5B.

#### 3644--Noncurrent Carrying Wiring Devices

This industry comprises establishments primarily engaged in manufacturing noncurrent carrying wiring devices. Important products of this industry include conduits and fittings, electrical insulators and insulation materials, except porcelain insulators (Industry 3624) and glass insulators (Industry 3229); outlet, switch and fuse

boxes; and pole-line hardware. For a detailed list of products of Industry 3644, refer to table 6A, product codes 3644111 to 3644323.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

All employees now classified in the new Industry 3644, Noncurrent Carrying Wiring Devices, were formerly classified in Industry 3611 (old SIC), Wiring Devices and Supplies. This represents 39 percent of old Industry 3611 employment.

Value of shipments and other receipts of the Noncurrent Carrying Wiring Devices Industry in 1958 totaled \$414 million. This included shipments of noncurrent carrying wiring devices (primary products) valued at \$305 million, shipments of other products (secondary products) valued at \$84 million, and miscellaneous receipts (mainly resales) of \$25 million.

This industry's shipments of noncurrent carrying wiring devices (primary products) in 1958 represented 78 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted of steel pipe and tubes, \$3 million; and floodlighting and area lighting equipment, \$6 million. Additional products are indicated in a footnote to table 5B.

While the primary products of the industry include pole-line and transmission hardware, electric conduit and conduit fittings, and other noncurrent carrying wiring devices, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 26 percent of the total industry shipments are represented by plants specializing in 36441, Pole-line and transmission hardware; 51 percent in 36442, Electric conduit and conduit fittings; and 22 percent in 36443, Other noncurrent carrying wiring devices.

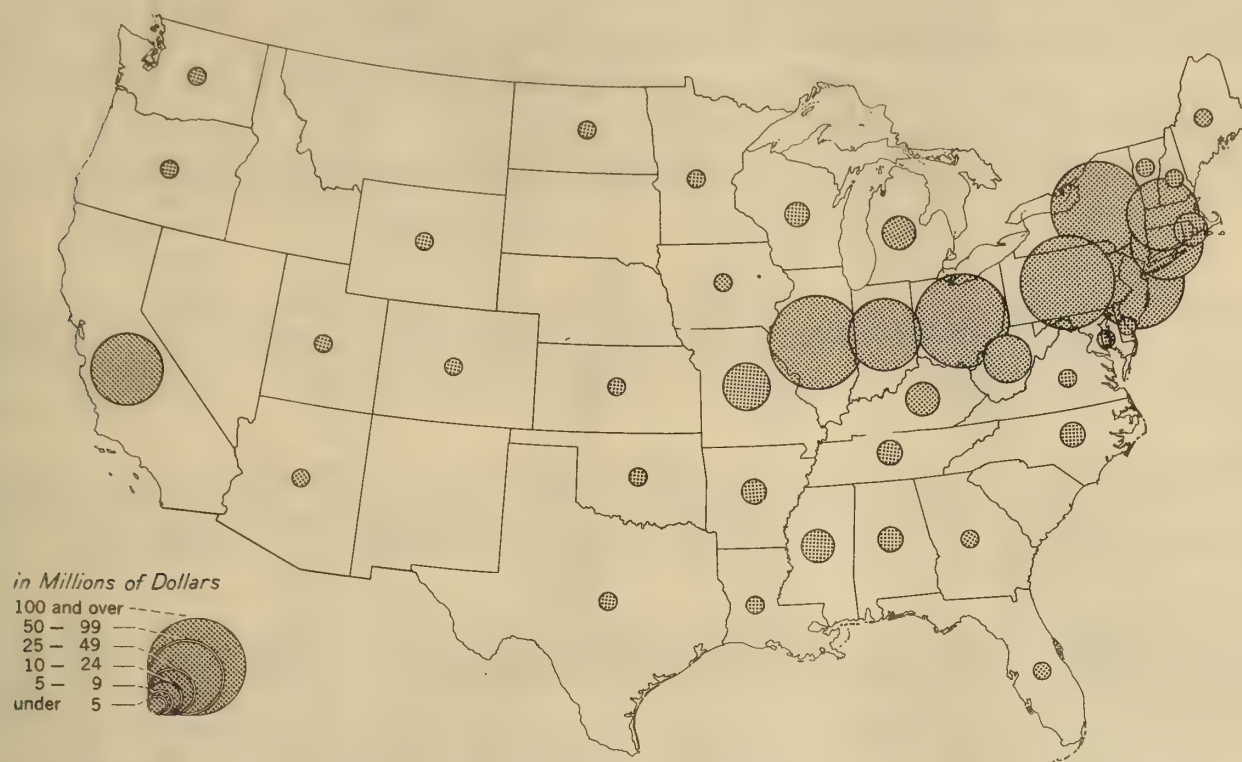
Industry 3644 shipments of noncurrent carrying wiring devices (primary products) in 1958 represented 89 percent (coverage ratio) of these products valued at \$342 million shipped by all industries. Other industries shipping noncurrent carrying wiring devices (primary products) consisted mainly of Industry 3357, Nonferrous Wire Drawing, N.E.C., \$7 million; and Industry 3643, Current Carrying Wiring Devices, \$4 million. In addition, industries shipping \$2 million or more of noncurrent carrying wiring devices are indicated in a footnote to table 5B.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## ELECTRIC LIGHTING AND WIRING EQUIPMENT: SIC 364

Value Added by Manufacture by State: 1958



Includes Industries 3641, 3642, 3643 and 3644. See Table 2.

Bureau of the Census M-58-D364

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ial- iza- tion <sup>6</sup> ratio (per- cent)	Cov- er- age <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3641 (old SIC 3651)	Electric lamps:														
	1958.....	35	66	52	21,495	95,298	18,236	35,119	73,625	270,498	136,158	417,516	8,276	94	98
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,731	102,731	21,478	42,469	82,016	297,911	145,000	435,280	11,000	93	100
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,001	95,763	20,941	41,450	77,167	289,874	136,869	411,628	12,518	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,017	83,214	19,137	37,541	66,410	264,300	119,334	381,522	8,807	(NA)	(NA)
	1954.....	35	66	53	21,963	78,921	19,172	36,750	63,205	216,230	111,505	330,864	8,288	94	99
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,207	73,886	18,966	37,018	61,511	204,559	115,975	320,534	9,644	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,276	65,310	17,417	34,087	50,885	165,350	88,852	254,202	7,980	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,955	76,078	22,023	42,269	62,899	196,711	113,340	310,051	7,514	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,679	61,588	18,888	37,614	49,480	165,170	91,966	257,136	7,730	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,468	52,587	17,263	33,465	43,201	132,042	78,205	210,248	9,197	(NA)	(NA)
	1947.....	35	62	52	23,842	57,914	21,550	42,090	48,891	120,344	82,904	203,248	11,318	94	100
	1939.....	(NA)	55	(NA)	11,587	15,309	9,622	(NA)	10,689	56,257	28,571	84,828	(NA)	(NA)	(NA)
	1937.....	(NA)	41	(NA)	(NA)	(NA)	8,984	(NA)	10,163	56,348	26,190	82,538	(NA)	(NA)	(NA)
3642 (old SIC 3471)	Lighting fixtures:														
	1958.....	1,154	1,181	431	47,309	215,829	36,443	71,605	143,786	397,378	419,912	826,595	14,415	91	94
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	53,690	227,295	42,680	84,724	159,736	403,533	409,833	811,665	15,602	89	92
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,827	220,090	44,393	88,378	158,733	382,401	404,351	786,082	13,836	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	55,099	213,910	45,541	86,701	157,482	381,303	394,817	759,958	23,030	(NA)	(NA)
	1954.....	1,211	1,228	381	45,078	181,951	36,361	73,660	128,759	324,651	332,815	660,073	14,217	90	90
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,484	215,190	44,745	90,847	158,973	383,513	376,540	760,053	17,076	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	47,969	177,984	38,849	79,211	127,369	325,758	304,302	630,060	7,840	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	47,782	170,682	39,377	80,246	124,450	305,083	339,333	644,416	16,398	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	46,281	157,398	37,276	77,249	109,234	277,362	322,369	599,731	16,339	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	43,303	140,422	34,813	70,641	97,368	250,504	265,269	515,863	7,560	(NA)	(NA)
	1947.....	(NA)	1,202	(NA)	46,891	131,279	39,393	(NA)	96,291	239,191	226,231	465,422	(NA)	(NA)	(NA)
	1939.....	(NA)	568	(NA)	25,686	35,758	20,477	(NA)	23,238	64,731	59,851	124,582	(NA)	(NA)	(NA)
	1937.....	(NA)	466	(NA)	25,599	33,888	21,743	(NA)	24,918	59,503	55,593	115,096	(NA)	(NA)	(NA)
	1935.....	(NA)	501	(NA)	20,113	24,342	16,677	(NA)	17,232	45,586	40,114	85,700	(NA)	(NA)	(NA)
	1933.....	(NA)	357	(NA)	12,459	12,625	10,538	(NA)	9,506	26,932	19,241	46,173	(NA)	(NA)	(NA)
	1931.....	(NA)	523	(NA)	...	...	14,790	(NA)	18,150	44,738	30,312	75,050	(NA)	(NA)	(NA)
	1929.....	(NA)	614	(NA)	28,339	46,979	23,580	(NA)	33,269	87,048	57,918	144,966	(NA)	(NA)	(NA)
	1927.....	(NA)	481	(NA)	25,821	41,898	21,030	(NA)	29,207	72,193	55,609	127,802	(NA)	(NA)	(NA)
	1925.....	(NA)	517	(NA)	26,835	42,301	22,334	(NA)	31,072	71,927	57,771	129,698	(NA)	(NA)	(NA)
	1923.....	(NA)	535	(NA)	27,359	39,567	22,191	(NA)	29,097	66,339	52,640	118,979	(NA)	(NA)	(NA)
	1921.....	(NA)	465	(NA)	19,056	25,409	15,866	(NA)	18,523	39,252	32,802	72,054	(NA)	(NA)	(NA)
	1919.....	(NA)	512	(NA)	21,776	26,228	18,155	(NA)	19,095	41,679	38,688	80,367	(NA)	(NA)	(NA)
	1914.....	(NA)	611	(NA)	21,389	15,371	18,047	(NA)	10,677	23,276	22,102	45,378	(NA)	(NA)	(NA)
	1909.....	(NA)	619	(NA)	22,475	14,734	18,861	(NA)	10,393	24,590	20,467	45,057	(NA)	(NA)	(NA)
	1904.....	(NA)	405	(NA)	14,319	8,606	12,576	(NA)	6,408	15,482	11,078	26,560	(NA)	(NA)	(NA)
	1899.....	(NA)	370	(NA)	12,532	6,680	11,238	(NA)	5,188	11,859	7,962	19,821	(NA)	(NA)	(NA)
3643 Pt. 3611 Pt. 3661	Current carrying devices <sup>9</sup> :														
	1958.....	404	422	160	34,808	151,687	25,962	50,383	97,718	294,189	189,429	486,186	9,629	86	79
3644 Pt. 3611 (old 3611)	Noncurrent carrying devices <sup>9</sup> :														
	1958.....	138	150	93	19,722	101,382	14,574	28,741	67,772	214,607	193,003	413,758	9,976	78	89
	1957 <sup>8</sup> .....	(NA)	556	236	50,689	236,137	37,853	73,690	155,112	474,348	357,282	840,886	18,480	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,694	223,186	39,526	76,981	154,258	461,639	337,922	790,077	25,174	86	87
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,270	214,813	40,306	80,595	154,101	455,391	359,074	793,066	20,889	(NA)	(NA)
	1954.....	368	395	211	43,195	168,474	34,882	68,944	122,166	340,911	243,455	584,366	12,346	85	86
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,162	191,885	39,721	79,883	136,787	359,275	286,353	645,628	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,000	175,618	39,159	77,704	122,972	355,009	250,291	605,300	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,794	176,069	45,332	89,623	128,474	361,436	299,490	660,926	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	44,364	136,921	36,811	73,174	97,568	272,540	227,021	499,561	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	33,815	104,967	26,879	53,035	70,902	195,395	149,210	344,605	(NA)	(NA)	(NA)
	1947.....	(NA)	344	(NA)	39,160	104,095	33,020	(NA)	78,655	218,567	165,879	384,446	(NA)	(NA)	(NA)
	1939.....	(NA)	141	(NA)	(NA)	(NA)	14,024	(NA)	16,358	47,951	43,428	91,379	(NA)	(NA)	(NA)
	1937.....	(NA)	124	(NA)	(NA)	(NA)	17,301	(NA)	19,884	48,485	46,906	95,391	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

Footnotes continued on next page.



Footnotes for Table 1—36C

<sup>2</sup>The method of compiling these figures has varied, as follows: **All employees:** for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3641	218,137	3643	(NA)
3642	323,711	3644	(NA)

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3641	129,625	108,205	3643	177,747	(NA)
3642	397,946	317,858	3644	174,712	(NA)

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3641	409,471	326,343	3643	472,096	(NA)
3642	797,159	641,569	3644	392,514	(NA)

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>The two industries shown were basically a single industry in 1957 and earlier years. However, due to a revision in the Standard Industrial Classification, a net gain of 16 establishments occurred in new industry 3643. These establishments are excluded from 1958 data for old industry 3611, so that comparable historical data may be presented. See table 1A and text for further explanation.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3643—Current carrying devices.....	422	160	34,808	294,189	xxx	xxx	xxx	xxx
Old Industry 3611—Wiring devices and supplies.....	402	143	30,829	259,211	556	<sup>r</sup> 237	50,689	474,348
Old Industry 3661—Radios and related products.....	20	17	3,979	34,978	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
New Industry 3644—Noncurrent carrying devices.....	150	93	19,722	214,607	xxx	xxx	xxx	xxx
Old Industry 3611—Wiring devices and supplies.....	150	93	19,722	214,607	556	<sup>r</sup> 237	50,689	474,348

<sup>1</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of the adjusted value added.

<sup>r</sup>Revised.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3641	Electric lamps, total.....	66	52	21,495	95,298	18,236	35,119	73,625	270,498	417,516	8,276	21,963	218,137	23,842
	Middle Atlantic...	26	21	8,249	38,558	6,610	13,025	27,170	81,745	123,757	3,507	8,666	61,102	10,763
	New York.....	5	3	428	1,655	378	772	1,319	2,724	5,892	( <sup>2</sup> )	322	1,508	804
	New Jersey.....	12	11	6,143	30,024	4,783	9,497	20,438	55,263	81,138	2,361	6,661	42,862	9,394
	Pennsylvania....	9	7	1,678	6,879	1,449	2,756	5,413	23,758	36,727	1,056	1,683	16,731	565
	All other divisions.....	40	31	13,246	56,740	11,626	22,094	46,455	188,753	293,759	4,769	13,297	157,035	13,079
3642	Lighting fixtures, total.....	1,181	431	47,309	215,829	36,443	71,605	143,786	397,378	826,595	14,415	45,078	323,711	46,891
	New England.....	56	25	3,294	14,467	2,474	4,999	9,672	26,654	50,328	878	3,379	25,918	5,015
	Massachusetts....	34	14	2,032	8,747	1,526	3,130	5,835	16,734	31,720	639	2,174	18,393	3,489
	Connecticut.....	16	7	890	4,198	668	1,340	2,797	6,390	11,529	( <sup>2</sup> )	851	5,457	1,292
	Middle Atlantic...	540	184	15,513	64,155	12,448	24,096	45,483	120,356	257,553	3,934	14,642	96,525	12,916
	New York.....	360	98	8,006	34,502	6,322	12,252	23,499	64,106	132,162	1,927	8,004	53,847	7,239
	New Jersey.....	79	33	2,943	12,248	2,454	4,959	9,157	22,561	49,670	1,037	2,731	17,374	2,344
	Pennsylvania....	101	53	4,564	17,405	3,672	6,885	12,827	33,689	75,721	970	3,905	25,303	3,333
	East North Central	243	110	17,514	87,022	13,043	25,461	56,293	146,169	301,743	5,528	20,227	148,943	24,641
	Ohio.....	54	29	4,768	24,544	3,351	6,539	15,141	41,833	88,223	1,150	6,150	43,035	7,655
	Illinois.....	146	64	6,148	28,101	4,627	9,153	17,200	46,742	104,536	1,334	6,030	45,686	8,332
	Michigan.....	17	6	645	3,742	510	992	2,383	7,797	16,796	( <sup>2</sup> )	1,692	12,507	1,252
	West North Central	44	17	1,694	7,337	1,305	2,643	4,885	12,075	25,131	( <sup>2</sup> )	1,529	12,855	1,514
	Missouri.....	33	15	1,556	6,701	1,188	2,391	4,471	10,843	23,219	( <sup>2</sup> )	1,455	12,548	1,328
	South Atlantic....	46	11	1,601	6,958	1,152	2,154	4,256	17,932	38,662	836	801	6,079	(D)
	Florida.....	26	5	321	1,051	241	443	739	1,554	3,816	( <sup>2</sup> )	242	1,056	33
	East South Central	19	10	1,917	7,660	1,529	3,209	4,880	19,443	42,102	605	1,049	6,979	(D)
	Kentucky.....	8	4	719	2,332	545	1,160	1,465	6,619	16,494	( <sup>2</sup> )	284	1,856	(D)
	Pacific.....	202	67	5,305	26,138	4,132	8,391	17,143	50,025	100,238	1,655	3,148	23,967	(D)
	California.....	190	63	4,917	24,040	3,845	7,814	15,772	46,310	93,424	943	3,061	23,481	2,254
	All other divisions.....	31	7	471	2,092	360	652	1,174	4,724	10,838	692	300	2,442	(D)
3643	Current carrying devices, total.....	422	160	34,808	151,687	25,962	50,383	97,718	294,189	486,186	9,629	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New England.....	77	40	11,366	49,110	8,410	15,895	31,120	96,667	153,637	2,458	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Massachusetts....	38	17	2,433	9,971	1,832	3,527	6,137	18,473	27,925	543	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Connecticut.....	30	17	6,995	32,096	4,932	9,275	19,812	62,627	95,836	1,656	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	145	55	10,131	40,418	8,162	15,613	27,931	79,871	141,684	3,013	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New York.....	77	33	6,171	23,539	5,035	9,434	16,299	42,098	74,511	1,832	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New Jersey.....	34	8	2,136	8,941	1,796	3,535	6,652	15,663	28,657	660	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pennsylvania....	34	14	1,824	7,938	1,331	2,644	4,980	22,110	38,516	521	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East North Central	98	42	8,832	40,599	6,022	12,195	23,707	81,154	132,357	2,754	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	50	28	6,509	29,449	4,394	8,879	17,025	58,889	95,729	1,997	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West North Central	15	7	893	3,824	654	1,201	2,387	6,915	13,629	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Missouri.....	10	5	830	3,664	599	1,107	2,251	6,628	13,224	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South.....	18	...	113	288	95	157	241	905	2,025	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West.....	69	16	3,473	17,448	2,619	5,322	12,332	28,677	42,854	1,049	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	64	16	3,450	17,357	2,605	5,299	12,307	28,383	42,240	1,044	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3644	Noncurrent carrying devices, total.....	150	93	19,722	101,382	14,574	28,741	67,772	214,607	413,758	9,976	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	50	35	9,276	45,400	6,860	13,350	31,572	99,891	191,799	4,702	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New York.....	18	11	3,777	17,109	2,856	5,524	12,339	35,255	58,733	1,067	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New Jersey.....	10	6	1,169	6,050	662	1,480	3,549	13,546	24,308	654	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pennsylvania....	22	18	4,330	22,241	3,342	6,346	15,684	51,090	108,758	2,981	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pacific.....	23	10	1,117	5,872	901	1,810	4,103	13,968	28,538	801	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	20	10	1,103	5,825	889	1,789	4,062	13,867	28,382	788	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	All other divisions.....	77	48	9,329	50,110	6,813	13,581	32,097	100,748	193,421	4,473	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Connecticut.....	9	5	730	3,084	586	1,111	2,132	6,880	11,239	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Ohio.....	11	7	1,427	8,174	926	1,719	4,246	14,539	22,380	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3641, Electric Lamps: New England—Massachusetts, 5 (2,607); East North Central—Ohio, 12 (2,500-4,999); Indiana, 1 (1-19); Illinois, 5 (500-999); Wisconsin, 1 (1-19); West North Central—Missouri, 2 (500-999); Kansas, 1 (1-19); South Atlantic—West Virginia, 1 (1,000-2,499); East South Central—Kentucky, 4 (1,000-2,499); Tennessee, 1 (250-499); Alabama, 1 (500-999); Mississippi, 1 (250-499); West South Central—Arkansas, 1 (500-999); Oklahoma, 1 (1-19); Texas, 1 (1-19); Pacific—California, 2 (100-249).

Footnotes continued on next page.



Footnotes for Table 2-36C

SIC 3642, Lighting Fixtures: New England—New Hampshire, 1 (1-19); Vermont, 1 (250-499); Rhode Island, 4 (20-99); East North Central—Indiana, 9 (4,675); Wisconsin, 17 (1,000-2,499); West North Central—Minnesota, 4 (20-99); Iowa, 3 (1-19); North Dakota, 1 (1-19); Kansas, 3 (20-99); South Atlantic—Delaware, 1 (20-99); Maryland, 7 (20-99); District of Columbia, 2 (1-19); West Virginia, 2 (100-249); North Carolina, 4 (500-999); Georgia, 4 (250-499); East South Central—Tennessee, 9 (250-499); Mississippi, 2 (500-999); West South Central—Arkansas, 2 (1-19); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 20 (250-499); Mountain—Colorado, 2 (20-99); Arizona, 4 (20-99); Utah, 1 (1-19); Pacific—Washington, 7 (250-499); Oregon, 1 (1-19).

SIC 3643, Current Carrying Devices: New England—Maine, 1 (250-499); Rhode Island, 8 (1,000-2,499); East North Central—Ohio, 25 (1,000-2,499); Indiana, 7 (500-999); Michigan, 11 (100-249); Wisconsin, 5 (50-99); West North Central—Minnesota, 2 (20-99); Iowa, 3 (20-99); South—Delaware, 1 (1-19); Maryland, 1 (1-19); District of Columbia, 1 (1-19); Virginia, 1 (1-19); North Carolina, 4 (20-99); Florida, 5 (1-19); Kentucky, 1 (1-19); Tennessee, 1 (1-19); Texas, 3 (20-99); West—Wyoming, 1 (1-19); Arizona, 1 (1-19); Washington, 2 (1-19); Oregon, 1 (1-19).

SIC 3644, Noncurrent Carrying Devices: New England—New Hampshire, 1 (1-19); Massachusetts, 9 (100-249); East North Central—Indiana, 2 (250-499); Illinois, 19 (3,956); Michigan, 3 (250-499); Wisconsin, 1 (1-19); West North Central—Minnesota, 2 (100-249); Iowa, 1 (1-19); Missouri, 3 (500-999); South Atlantic—Maryland, 1 (100-249); West Virginia, 2 (500-999); Georgia, 1 (100-249); Florida, 2 (1-19); East South Central—Kentucky, 1 (20-99); Alabama, 4 (500-999); Mississippi, 1 (20-99); West South Central—Texas, 3 (20-99); Mountain—Arizona, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 2 (1-19).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see tables 1A, 2A and text of this report).

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3643 and 3644	Current carrying devices and Non-current carrying devices, total <sup>2</sup> .....	556	236	50,689	236,137	37,853	73,690	155,112	474,348	840,886	18,480	43,195	340,911	39,160
	New England.....	86	40	11,275	49,494	8,419	15,756	31,620	98,360	157,311	2,616	11,121	80,975	11,319
	Massachusetts.....	41	16	2,284	9,382	1,734	3,296	5,830	17,658	26,825	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Connecticut.....	36	18	7,059	33,088	5,043	9,375	20,630	65,168	100,680	1,874	7,353	56,369	7,264
	Middle Atlantic...	194	83	19,267	85,293	14,898	28,711	59,089	178,705	331,644	7,702	18,148	142,142	15,019
	New York.....	93	42	9,796	40,006	7,757	14,686	28,128	76,183	131,119	2,886	8,804	61,513	7,864
	New Jersey.....	45	14	3,317	15,108	2,468	5,035	10,297	29,322	53,251	1,314	3,251	22,205	2,812
	Pennsylvania.....	56	32	6,154	30,179	4,673	8,990	20,664	73,200	147,274	3,502	6,092	58,423	4,343
	North Central.....	147	72	13,912	70,094	9,708	19,338	41,973	131,051	224,889	5,569	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Ohio.....	35	14	2,468	13,239	1,709	3,368	7,530	24,533	38,855	810	1,856	17,650	1,902
	Indiana.....	10	6	1,362	6,378	964	1,807	3,863	12,563	21,749	( <sup>3</sup> )	415	3,278	542
	Illinois.....	64	38	7,918	40,041	5,528	11,334	24,651	74,911	129,008	3,742	5,172	44,028	5,784
	Michigan.....	12	4	412	1,877	293	529	1,204	4,020	6,562	( <sup>3</sup> )	279	2,039	197
	Minnesota.....	4	2	130	609	111	237	493	1,156	1,692	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South.....	35	11	1,703	8,285	1,345	2,837	6,170	24,022	55,915	746	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	94	25	4,532	22,971	3,483	7,048	16,260	42,210	71,127	1,847	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3643, Current Carrying Devices and Noncurrent Carrying Devices: New England—Maine, 1 (250-499); New Hampshire, 1 (1-19); Rhode Island, 7 (1,000-2,499); East North Central—Wisconsin, 5 (20-99); West North Central—Iowa, 4 (20-99); Missouri, 12 (1,000-2,499); Kansas, 1 (1-19); South Atlantic—Delaware, 1 (1-19); Maryland, 2 (100-249); District of Columbia, 1 (1-19); Virginia, 1 (1-19); West Virginia, 3 (500-999); North Carolina, 4 (20-99); Georgia, 1 (100-249); Florida, 2 (1-19); East South Central—Kentucky, 2 (20-99); Tennessee, 1 (1-19); Alabama, 5 (500-999); Mississippi, 1 (20-99); West South Central—Texas, 6 (20-99); Mountain—Wyoming, 1 (1-19); Arizona, 2 (20-99); Pacific—Washington, 3 (1-19); Oregon, 3 (1-19); California, 85 (2,500-4,999).

<sup>2</sup>See footnote 9 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>The State, region or country not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.—Detailed Statistics for the United States: 1958

Item	Electric lamps (SIC 3641)	Lighting fixtures (SIC 3642)	Current carrying devices (SIC 3643)	Noncurrent carrying devices (SIC 3644)
Primary product specialization ratio <sup>1</sup> .....	94	91	86	78
Coverage ratio <sup>2</sup> .....	98	94	79	89
Number of establishments, total.....	66	1,181	422	150
With 1-19 employees.....	14	750	262	57
With 20-99 employees.....	8	336	96	46
With 100 employees or more.....	44	95	64	47
Proprietors and working partners.....Number..	7	566	136	33
All employees:				
Number (average for the year).....	21,495	47,309	34,808	19,722
Payroll.....\$1,000..	95,298	215,829	151,687	101,382
Production workers:				
Number (average for the year).....	18,236	36,443	25,962	14,574
March.....	19,233	36,284	24,976	14,285
May.....	18,088	34,481	24,602	14,278
August.....	17,393	36,786	25,763	14,372
November.....	18,211	38,303	28,669	15,387
Man-hours.....1,000..	35,119	71,605	50,383	28,741
January-March.....do....	9,700	17,923	12,470	6,885
April-June.....do....	8,849	16,974	12,034	7,020
July-September.....do....	7,331	17,626	11,697	7,115
October-December.....do....	9,231	19,082	13,975	7,871
Wages.....\$1,000..	73,625	143,786	97,718	67,772
Cost of materials, etc., total.....do....	136,158	419,912	189,429	193,003
Materials, parts, containers, and supplies consumed.....do....	125,355	379,170	164,208	168,761
Cost of resales.....do....	6,533	21,966	11,682	18,291
Fuels consumed.....do....	1,468	3,136	1,277	2,321
Electricity purchased.....do....	2,609	4,289	2,145	2,011
Contract work.....do....	193	11,351	10,117	1,619
Value of shipments (including resales), total.....do....	417,516	826,595	486,186	413,758
Value of resales.....do....	8,045	29,436	14,090	21,244
Value added by manufacture, adjusted.....do....	270,498	397,378	294,189	214,607
Manufacturers' inventories:				
Beginning of year, total.....do....	63,313	127,133	87,155	87,385
Finished products.....do....	49,924	42,469	30,785	41,510
Work-in-process.....do....	1,746	40,145	31,848	19,380
Materials, supplies, fuel, etc.....do....	11,643	44,519	24,522	26,495
End of year, total.....do....	51,047	116,252	84,475	80,934
Finished products.....do....	39,151	37,729	24,947	35,491
Work-in-process.....do....	1,659	35,578	35,118	19,251
Materials, supplies, fuel, etc.....do....	10,237	42,945	24,410	26,192
Expenditures for plant and equipment, total.....do....	8,767	16,957	10,287	10,213
New, total.....do....	8,276	14,415	9,629	9,976
New structures and additions to plant.....do....	466	4,305	2,073	2,309
New machinery and equipment.....do....	7,810	10,110	7,556	7,667
Used plant and equipment.....do....	491	2,542	658	237

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>R</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



## ELECTRIC LIGHTING AND WIRING EQUIPMENT

36C-9

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3641	Electric lamps:											
	Number of establishments.....	66	7	4	3	4	4	10	21	11	1	1
	All employees:											
	Number.....	21,495	16	28	34	158	332	1,572	7,652	11,703	(D)	(D)
	Payroll.....\$1,000..	95,298	58	118	117	486	1,149	5,969	32,403	54,998	(D)	(D)
	Value added, adjusted..do....	270,498	84	255	171	681	1,488	15,927	108,213	143,679	(D)	(D)
	Value of shipments.....do....	417,516	179	303	221	1,122	2,526	28,220	162,866	222,079	(D)	(D)
	Capital expend., new...do....	8,276	( <sup>1</sup> )	( <sup>1</sup> )	...	( <sup>1</sup> )	( <sup>1</sup> )	765	3,590	3,856	(D)	(D)
3642	Lighting fixtures:											
	Number of establishments.....	1,181	361	181	208	224	112	60	24	10	...	1
	All employees:											
	Number.....	47,309	786	1,218	2,907	7,268	7,606	9,341	7,868	10,315	...	(D)
	Payroll.....\$1,000..	215,829	2,956	4,677	12,634	29,718	33,176	42,123	36,838	53,707	...	(D)
	Value added, adjusted..do....	397,378	6,663	9,588	25,022	58,890	63,205	76,517	66,263	91,230	...	(D)
	Value of shipments.....do....	826,595	18,121	22,710	55,735	132,903	128,769	159,943	133,920	174,494	...	(D)
	Capital expend., new...do....	14,415	( <sup>1</sup> )	( <sup>1</sup> )	1,672	2,350	1,652	2,170	2,304	3,474	...	(D)
3643	Current carrying devices:											
	Number of establishments.....	422	109	78	75	58	38	33	13	12	5	1
	All employees:											
	Number.....	34,808	216	533	1,058	1,791	2,686	4,928	4,025	8,535	11,036	(D)
	Payroll.....\$1,000..	151,687	877	2,102	4,237	7,011	11,278	21,109	17,017	36,731	51,325	(D)
	Value added, adjusted..do....	294,189	1,833	4,932	8,956	17,514	22,189	48,398	31,745	70,477	88,145	(D)
	Value of shipments.....do....	486,186	4,726	9,591	16,071	35,292	39,354	81,152	57,056	116,637	126,307	(D)
	Capital expend., new...do....	9,629	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	967	564	1,289	1,083	1,599	2,969	(D)
3644	Noncurrent carrying devices:											
	Number of establishments.....	150	26	13	18	23	23	27	11	6	3	...
	All employees:											
	Number.....	19,722	42	92	263	724	1,533	4,353	3,914	4,334	4,467	...
	Payroll.....\$1,000..	101,382	128	417	1,110	3,631	7,198	22,259	19,738	25,089	21,812	...
	Value added, adjusted..do....	214,607	428	748	2,482	6,803	14,469	44,416	52,337	45,445	47,479	...
	Value of shipments.....do....	413,758	842	1,730	4,549	13,356	28,501	98,277	104,844	88,305	73,354	...
	Capital expend., new...do....	9,976	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3,415	1,634	2,056	2,038	...

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3641	Electric lamps.....1958..	417,516	384,151	24,756	8,609	94	393,597	384,151	9,446	98
	.....1954..	330,864	306,657	18,872	5,335	94	309,650	306,657	2,993	99
3642	Lighting fixtures.....1958..	826,595	721,197	69,896	35,502	91	765,413	721,197	44,216	94
	.....1954..	660,073	573,373	60,585	25,115	90	633,488	573,373	60,115	90
3643	Current carrying devices.....1958..	486,186	401,594	63,278	21,314	86	509,380	401,594	107,786	79
3644	Noncurrent carrying devices....1958..	413,758	304,734	83,694	25,330	78	341,570	304,734	36,836	89

<sup>1</sup>Revised.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Electric lamps industry	Electric lamps (SIC 3641)	Other industries	All industries
	Total shipments and receipts of the industry.....	417,516	xxx	xxx
36410	Electric lamps.....	384,151	19,446	393,597
	Secondary products.....	24,756	xxx	xxx
	Miscellaneous receipts.....	8,609	xxx	xxx
	Resales.....	8,045	xxx	xxx
	Other miscellaneous receipts.....	564	xxx	xxx
Prod. class code	Lighting fixtures industry	Lighting fixtures (SIC 3642)	Other industries	All industries
	Total shipments and receipts of the industry.....	826,595	xxx	xxx
	Primary products.....	721,197	44,216	765,413
36421	Residential type electric fixtures.....	218,540	8,804	227,344
36422	Commercial and institutional type electric fixtures.....	165,209	2,874	168,083
36423	Industrial type electric fixtures.....	60,665	1,728	62,393
36424	Vehicular lighting equipment, electric.....	102,377	3,593	105,970
36425	Floodlighting and area lighting equipment.....	65,818	10,490	76,308
36426	Other electric and nonelectric lighting equipment.....	52,968	15,904	68,872
36420	Lighting fixtures, nsk.....	55,620	823	56,443
	Secondary products.....	69,896	xxx	xxx
	Miscellaneous receipts.....	35,502	xxx	xxx
	Contract work.....	2,309	xxx	xxx
	Resales.....	29,436	xxx	xxx
	Other miscellaneous receipts.....	3,757	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Current carrying devices industry	Current carrying devices (SIC 3643)	Other industries	All industries
	Total shipments and receipts of the industry.....	486,186	xxx	xxx
36430	Current carrying wiring devices, including lightning rods.....	401,594	7107,786	509,380
	Secondary products.....	63,278	xxx	xxx
36112	Test equipment, electrical.....	1,291	xxx	xxx
36133	Low voltage panel boards and distribution boards.....	5,625	xxx	xxx
36442	Electric conduit and conduit fittings.....	4,386	xxx	xxx
36795	Other electronic components and accessories, nec.....	6,983	xxx	xxx
36996	Appliance wire and cord and flexible cord sets.....	8,269	xxx	xxx
	All other secondary products.....	236,724	xxx	xxx
	Miscellaneous receipts.....	21,314	xxx	xxx
	Contract work.....	3,639	xxx	xxx
	Resales.....	14,090	xxx	xxx
	Other miscellaneous receipts.....	3,585	xxx	xxx
Prod. class code	Noncurrent carrying devices industry	Noncurrent carrying devices (SIC 3644)	Other industries	All industries
	Total shipments and receipts of the industry.....	413,758	xxx	xxx
	Primary products.....	304,734	36,836	341,570
36441	Pole-line and transmission hardware.....	75,338	5,840	81,178
36442	Electric conduit and conduit fittings.....	172,238	29,028	201,266
36443	Other noncurrent carrying wiring devices and supplies.....	57,158	1,968	59,126
	Secondary products.....	83,694	xxx	xxx
33176	Steel pipe and tubes.....	3,311	xxx	xxx
36425	Floodlighting and area lighting equipment.....	6,100	xxx	xxx
	All other secondary products.....	1074,223	xxx	xxx
	Miscellaneous receipts.....	25,330	xxx	xxx
	Contract work.....	1,720	xxx	xxx
	Resales.....	21,244	xxx	xxx
	Other miscellaneous receipts.....	2,366	xxx	xxx

<sup>1</sup>Includes shipments of over \$2 million by Industry 3642, Lighting Fixtures, but the exact figure is withheld to avoid disclosing individual company figures.

<sup>2</sup>Includes shipments of over \$2 million of product class 36992, Lamp bulb components, but the exact figure is withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes shipments of over \$2 million by Industry 3644, Noncurrent Carrying Devices. However, the exact value is withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes shipments of \$6,160 thousand by Industry 3644, Noncurrent Carrying Devices.

<sup>5</sup>Includes shipments of over \$2 million by each of the following industries, but the exact values are withheld to avoid disclosing individual company figures: 3433, Nonelectric Heating Equipment; and 3585, Refrigeration Machinery.

<sup>6</sup>Includes shipments of over \$2 million for each of the following product classes, the exact values of which are withheld to avoid disclosing individual company figures: 32315, Mirrors; 34412, Fabricated structural iron and steel for bridges; 36121, Specialty transformers; 36291, Capacitors for industrial use; and 36410, Electric lamps (bulbs only).

<sup>7</sup>Includes shipments of the specified amounts by the following industries: Industry 3611, Electrical Measuring Instruments, \$1,247; Industry 3613, Switchgear and Switchboards, \$7,348; Industry 3622, Industrial Controls, \$7,921; Industry 3644, Noncurrent Carrying Devices, \$29,837; Industry 3679, Electronic Components, NEC, \$7851; and Industry 3699, Electrical Products, NEC, \$2985. In addition, the following industries shipped \$2 million or more, but the exact values are withheld to avoid disclosing individual company figures: Industry 3356, Rolling and Drawing, NEC; Industry 3629, Electric Industrial Apparatus, NEC; Industry 3642, Lighting Fixtures; Industry 3661, Telephone and Telegraph Apparatus; and Industry 3694, Engine Electrical Equipment.

<sup>8</sup>Includes shipments of \$2 million or more by the following product classes, but the exact values are withheld to avoid disclosing individual company figures: 33560, Rolling and drawing, nec; 36220, Industrial controls; and 36233, Resistance welders.

<sup>9</sup>Includes \$7,028 thousand shipped by Industry 3357, Nonferrous Wire Drawing, NEC, and \$4,386 thousand by Industry 3643, Current Carrying Devices. In addition, the following industries each shipped \$2 million or more, but the exact values are withheld to avoid disclosing individual company figures: Industry 3317, Steel Pipes and Tubes; Industry 3561, Pumps and Compressors; and Industry 3613, Switchgear and Switchboards.

<sup>10</sup>Includes the following product classes each of which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33579, Other insulated wire and cable, nec; 34522, Special industrial fasteners, other than standard type; 34790, Coating, engraving and allied services; 36131, Switchgear including power switchgear assemblies; 36421, Residential type electric fixtures; and, 36623, Intercommunication equipment.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total production (1,000 bulbs)	1958		1954		
			Total shipments including inter-plant transfers		Total production (1,000 bulbs)	Total shipments including inter-plant transfers	
			Quantity (1,000 bulbs)	Value (\$1,000)		Quantity (1,000 bulbs)	Value (\$1,000)
3641---	Electire lamps (bulbs).....	xxx	xxx	393,597	xxx	xxx	309,650
3641010	Electric lamps (bulbs), except code cathode fluorescent, as reported in the Census of Manufactures.....	xxx	xxx	390,386	xxx	xxx	306,601
	Electric lamps (bulbs), except cold cathode fluorescent, as reported on Census Quarterly Form M36B.....	2,321,063	2,392,320	395,577	2,246,401	2,231,343	302,055
	Large incandescent:						
3641011	General lighting, 15-150 watt, 100-130 volts.....	765,538	777,200	79,499	693,755	737,046	66,856
3641012	General lighting above 150 watt, 100-130 volts.....	57,458	61,641	16,911	62,484	63,356	17,622
3641013	3-light, 100-130 volts.....	23,080	27,323	7,758	20,297	20,713	5,346
3641014	Reflector, 100-130 volts.....	21,181	20,983	19,233	14,426	15,295	12,112
3641015	Infrared (all types), 100-130 volts.....	3,400	3,687	2,477	3,732	3,921	3,157
3641016	Traffic and street lighting 100-130 volts.....	13,141	12,359	4,538	213,134	211,937	24,834
3641017	Rough and vibration service.....	31,197	26,722	5,778	152,037	159,491	26,758
3641018	All other large incandescent (special purpose) <sup>1</sup> .....	136,680	155,204	29,573			
	Photographic incandescent <sup>3</sup> :						
	Photoflash.....	574,920	572,768	37,438	550,408	464,207	31,403
3641021	Screw base (including blue).....	8,965	10,879	1,091			
3641022	Midget (including blue).....	401,132	399,418	27,156			
3641023	Miniature (including blue).....	164,823	162,470	9,191			
3641024	Projection.....	4,139	4,885	8,102	3,831	3,164	4,845
3641025	Photoflood, photo-enlarger and other photolamps.....	6,470	6,964	3,749	4,007	3,490	1,746
	Miniature incandescent:						
	Automobile glass and metal sealed beams:						
3641031	Under 6 inches.....	28,161	27,467	17,085	431,838	433,278	414,568
3641032	6 inches and over.....	24,889	26,728	19,108			
3641033	Automobile miniature other than glass and sealed beams..	226,824	236,138	17,755	217,539	229,769	14,519
3641034	Flashlight.....	51,430	62,544	3,360	65,300	80,202	3,820
3641035	Radio panel.....	27,782	29,187	1,282	23,863	25,765	1,091
3641039	All other miniature <sup>5</sup> .....	32,751	33,646	6,028	27,972	26,632	4,326
	Electrical discharge (except Christmas tree):						
3641041	Germicidal, sterile, bacterial and ozone.....	833	1,144	981	<sup>e</sup> 534	<sup>e</sup> 606	<sup>e</sup> 936
3641042	Sun lamps (bulbs only).....	566	497	2,423	497	365	1,708
	Fluorescent, hot cathode:						
3641043	Slimline.....	21,690	21,927	30,479	93,010	91,036	65,440
3641044	Other fluorescent lamps (except slimline).....	90,829	92,842	58,195			
	Miscellaneous electrical discharge:						
3641051	Glow.....	28,079	28,798	2,753	19,993	16,580	1,421
3641052	Mercury.....	800	853	8,823	566	527	4,464
3641053	Sodium, photochemical, and other miscellaneous electrical discharge.....	53	56	2,030	<sup>e</sup> 1,283	<sup>e</sup> 1,478	<sup>e</sup> 2,710
3641055	Christmas tree lamps (all types).....	149,172	160,760	10,216	245,897	242,485	12,377
3641063	Cold cathode fluorescent lamps for illumination and decoration, including custom built lamps, but excluding sign applications.....	xxx	xxx	3,211	xxx	xxx	3,049

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3642---	Lighting fixtures, total.....	765,413	633,488
36421--	Residential type electric fixtures.....	227,344	183,427
3642111	Incandescent lighting equipment, fixtures (excluding portable lamps), residential type:		
3642111	Interior ceiling or pendant (including bath or kitchen).....	50,194	36,885
3642113	Interior wall or bracket (including bath or kitchen).....	9,358	6,675
3642119	Other residential type fixtures (outdoor, porch, etc.).....	11,929	7,916
	Incandescent portable lamps, complete residential type:		
	Complete with shade:		
3642121	Floor, bridge, and torch lamps.....	25,765	30,722
3642122	Wall lamps (including adjustable types).....	6,664	(7)
3642123	Table lamps.....	61,275	49,973
3642129	Other (including boudoir).....	12,715	78,063
3642132	Lamps sold without shades (including floor, bridge, table, etc.).....	2,933	5,357
3642151	Fluorescent residential type fixtures, except portable lamps.....	12,970	13,211
3642161	Portable lamps (desk, etc.) fluorescent.....	3,188	6,140
3642100	Residential type electric fixtures, nsk.....	30,353	18,485
36422--	Commercial and institutional type electric fixtures.....	168,083	119,016
	Incandescent lighting fixtures, except portable:		
	Utilitarian type and ornamental type (primarily for public buildings, bank, store, office building, school, auditorium, church, and theatre, etc.), including exterior display:		
3642211	Surface or pendant.....	20,848	19,858
3642215	Recessed.....	18,815	
3642217	Specialized commercial and institutional lighting fixtures such as interior display, etc.....	2,651	3,304
	Fluorescent lighting fixtures, commercial or institutional type, except portable:		
3642251	Surface or pendant.....	94,263	78,646
3642255	Recessed.....	28,895	12,475
3642261	Portable lamps, incandescent (including commercial and institutional).....	2,611	4,733
36423--	Industrial type electric fixtures.....	62,393	60,457
	Incandescent lighting fixtures:		
3642311	General lighting.....	8,122	9,105
3642319	Other industrial type fixtures (including explosion-proof, vapor-proof, and dust-tight).....	3,431	5,812
	Fluorescent lighting fixtures:		
3642341	General lighting.....	38,256	31,756
3642349	Other industrial fixtures (including explosion-proof, vapor-proof, and dust-tight).....	2,624	2,983
3642300	Industrial type electric fixtures, nsk.....	9,960	10,801
36424--	Vehicular lighting equipment, electric.....	105,970	144,391
	Motor vehicle lighting equipment, incandescent:		
	Spot, fog, and auxiliary lighting equipment:		
3642411	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	2,968	3,221
3642415	Shipments to all other customers.....	5,338	4,415
	Other (parking, dome, taillights, etc.):		
3642431	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	48,863	89,728
3642455	Shipments to all other customers.....	12,493	9,982
	Headlight fixtures (excluding bulbs):		
3642471	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	18,483	24,513
3642475	Shipments to all other customers.....		
3642479	Other incandescent vehicular type lighting equipment, such as aircraft, watercraft, railway locomotive and car, streetcar, etc.....	14,020	9,364
3642481	Other fixtures, including vehicular type lighting equipment, such as automobile, bus, aircraft, watercraft, railway locomotive and car, streetcar, etc.....	1,930	103,168
3642400	Vehicular lighting equipment, nsk.....	1,875	...
36425--	Floodlighting and area lighting equipment.....	76,308	52,047
3642511	Floodlights (general type).....	13,245	11,905
3642513	Searchlights.....	812	5,610
3642515	Spotlights (including such items as indoor and stage, but excluding vehicular type).....	3,852	4,404
3642531	Aviation ground type lighting fixtures (airport, airway, seadrome, and flight deck).....	4,693	6,360
3642543	Mercury vapor street and highway lighting equipment (excluding ballasts).....	5,104	(10)
3642551	Street and highway lighting equipment.....	3,784	115,486
3642555	Area lighting equipment.....	9,051	(10)
	Incandescent street and highway lighting equipment (excluding traffic signals):		
3642571	Luminaries, all types.....	12,410	10,216
3642581	Standards, newels, brackets, and accessories.....	22,304	5,205
3642500	Floodlighting and area lighting equipment, nsk.....	1,053	2,861

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)				
		1958		1954		
3642---	Lighting fixtures--Continued					
36426--	Other electric and nonelectric lighting equipment (including hand portable equipment) and parts and accessories.....		68,872		<sup>r</sup> 54,834	
3642611	Incandescent hand portable lighting equipment, excluding parts:					
3642619	Flashlights and flashlight lanterns (one to five cells).....		13,661		14,762	
	Other, such as miners' lights, emergency warning lights, generator flashlights, etc.....		3,650		6,934	
3642621	Other electric lighting equipment, including electrical discharge such as mercury vapor (other than street and highway lighting equipment), sodium vapor, etc. (excluding signs).....		3,621		( <sup>11</sup> )	
3642631	Other incandescent electric lighting equipment, including marine markers or beacons, railway and other vehicular route lighting equipment, parts and accessories such as reflectors, etc., but excluding wire devices sold separately.....		8,309		11,695	
3642661	Light strips.....		6,430		( <sup>12</sup> )	
3642671	Parts and accessories for fluorescent lighting equipment, excluding tubes, ballasts, starting switches, and lampholders, but including reflectors, etc.....		3,118		3,705	
3642675	Other fluorescent lighting equipment, complete units (including processing and technical equipment).....		2,216		<sup>12</sup> 5,784	
3642681	Nonelectric lighting equipment, including parts:					
3642685	Kerosene and gasoline lamps and lanterns.....		6,456		5,917	
	Parts and accessories for nonelectric lighting equipment, including reflectors and fittings, incandescent mantles, etc.....		7,612		2,973	
3642689	Other nonelectric lighting fixtures and equipment, complete units (including carbide lamps of all types).....		3,454		964	
3642691	Ultraviolet and infrared health lamp fixtures (excluding lamp bulbs sold separately).....		1,885		<sup>r</sup> 1,161	
3642600	Other electric and nonelectric lighting equipment, nsk.....		8,460		<sup>8</sup> 939	
3642000	Lighting fixtures, nsk.....		56,443		19,316	
		Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3643---	Current-carrying wiring devices, total.....	.....	xxx	509,380	xxx	285,163
36430--	Current-carrying wiring devices, including lightning rods:					
	Lampholders, except automotive:					
	Incandescent:					
3643001	Brass or metal shell lamp holders (excluding outlet box) all sizes....	1,000 units	47,751	6,672	xxx	9,897
3643002	Outlet box lamp holders.....	...do.....	14,049	4,200	14,502	4,212
3643003	Other incandescent lamp holders (including lumiline and weatherproof)....	...do.....	151,205	12,931	140,538	11,413
3643005	Fluorescent (all types).....	...do.....	81,928	7,922	xxx	6,163
	Convenience and power outlets:					
3643011	Flush, 15 amperes and under (all types, designed for mounting in outlet boxes).....	...do.....	87,660	18,088	59,801	14,227
3643013	Flush, over 15 amperes (all types, designed for mounting in outlet boxes)....	...do.....	14,976	3,330	10,704	5,033
3643017	Appliance and special application outlets (installed generally as a component part of an electrical appliance or piece of electrical equipment).....	...do.....	13,806	2,864	( <sup>13</sup> )	( <sup>13</sup> )
3643014	Surface raceway outlets.....	...do.....	} <sup>r</sup> 29,361	<sup>r</sup> 4,329	(NA)	3,874
3643019	Surface, except raceway outlets, and all other (including pin and sleeve, and circuit breaking types).....	...do.....				
3643021	Attachment plug caps, connector bodies, and motor bases, adapters, and miscellaneous current taps.....	.....	xxx	34,001	xxx	<sup>13</sup> 10,064
	Switches (except knife, time, solenoid, and automotive):					
3643023	Appliance and special application switches (installed generally as a component part of an electrical appliance or piece of electrical equipment--except precision snap acting switch type).....	1,000 units.	<sup>r</sup> 73,558	<sup>r</sup> 43,155	71,194	32,416
	General purpose flush switches (designed for mounting in outlet boxes):					
3643025	15 amperes and under (except low voltage, remote control switches)....	...do.....	<sup>r</sup> 45,628	<sup>r</sup> 14,103	} xxx	<sup>15</sup> 19,194
3643027	Over 15 amperes.....	...do.....	<sup>r</sup> 6,025	<sup>r</sup> 3,008		
3643028	Low voltage, remote control.....	...do.....	2,069	1,151		
3643036	Precision (1/8" gap or less) snap-acting switches, excluding limit switches.....	.....	xxx	( <sup>14</sup> )	} <sup>r</sup> 7,704	
3643039	All other (including surface, canopy, fixture, and portable lamp switches--except knife, time, solenoid and automotive switches).....	.....	xxx			
3643051	Fluorescent starters.....	1,000 units.	66,072	8,789	53,013	7,528
3643071	Lighting arresters and choke coils for power transmission and distribution circuits and for railway signaling power circuits.....	.....	xxx	20,514	xxx	19,466
3643073	Rail bonds for both propulsion and signal circuits.....	.....	xxx	3,623	xxx	1,407

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3643---	Current-carrying wiring devices--Continued					
36430--	Current-carrying wiring devices, including lightning rods--Continued					
3643075	Metal contacts, precious and other.....	.....	xxx	28,660	xxx	(16)
3643079	Connectors for electronic application.....	.....	xxx	66,436	(NA)	(NA)
	Wire connectors:					
3643081	Solderless (including industrial and service).....	1,000 units.	5,929,566	59,359	(NA)	47,133
3643085	Other (including solder lugs and splicing sleeves).....	..do.....	176,074	57,000	(NA)	46,392
3643098	Other current carrying wiring devices, including rosettes, etc.....	.....	xxx	1460,995	xxx	13 1837,845
3643091	Lightning rods.....	.....			(NA)	(NA)
3643092	Overhead trolley line material (except poleline hardware and expansion shells and plugs for roof bolting in mines).....	.....	xxx	40,546	xxx	1,753
3643000	Current carrying wire devices, nsk <sup>17</sup> .....	.....			xxx	7,146
3644---	Noncurrent carrying wiring devices, total.....	.....	xxx	341,570	xxx	284,066
36441--	Pole-line and transmission hardware.....	.....	xxx	81,178	xxx	70,915
3644111	Pole-line hardware (except transmission hardware for high voltage porcelain products).....	.....	xxx	69,241	xxx	57,330
3644151	Transmission hardware for high voltage porcelain products (including clamps, end fittings, strain yokes).....	.....	xxx	11,241	xxx	13,585
3644100	Noncurrent carrying wiring, nsk.....	.....	xxx	696	xxx	(NA)
36442--	Electric conduit and conduit fittings.....	.....	xxx	201,266	xxx	152,289
3644231	Rigid conduit (standard weight), including couplings, nipples, bends, and elbows.....	Short tons..	(18)	(18)	215,260	52,987
3644232	Electrical metallic tubing (thin wall conduit) including couplings, nipples, bends, and elbows.....	..do.....	(18)	(18)	45,493	15,317
3644233	Flexible steel conduit.....	1,000 feet..	70,389	6,110	55,847	4,141
3644235	Raceways and raceway fittings (metal).....	.....	xxx	21,515	xxx	13,245
3644236	Other electrical conduit (including underground conduit and fittings, molding angles, molding outlet, and molding junction boxes).....	.....	xxx	18116,354	xxx	6,560
3644239	Fittings other than those listed above (including conduit and electric metallic tubing connectors, service entrance caps and ells, insulating bushings, pothead, etc., and fittings for armored cable, nonmetallic wiring systems, and service cables).....	.....	xxx	44,760	xxx	49,048
	Switch and outlet wall plates (in number of gangs):					
3644263	Metal.....	1,000 units.	23,802	3,525	} xxx	6,033
3644265	Plastic.....	..do.....	52,726	4,045		
3644200	Electric conduit, nsk.....	.....	xxx	5,157	xxx	194,958
36443--	Other noncurrent carrying wiring devices and supplies.....	.....	xxx	59,126	xxx	60,862
	Stamped metal boxes, covers, and accessories (including stamped conduit boxes):					
3644311	Switch and receptacle boxes.....	1,000 units.	87,113	16,198	72,148	11,468
3644313	Outlet boxes.....	..do.....	76,380	14,580	80,587	14,589
3644317	Covers and accessories (including supports and bar hangers).....	.....	xxx	3,153	xxx	3,800
3644321	Cast metal boxes, covers, and accessories (including cast conduit boxes, but excluding fittings).....	.....	} xxx	20,984	xxx	31,005
3644323	Nonmetallic boxes and covers.....	.....				
3644300	Other noncurrent carrying wiring and supplies, nsk.....	.....	xxx	4,211	xxx	(19)

NA Not available. <sup>17</sup>Revised.<sup>1</sup>Includes lamps for special services such as sign and display lighting; aviation; street railway; spot and flood lighting; train and country home lighting; traffic signal; show cases; other items for special application and large incandescent lamps under 15 watts and/or other than 100-130 volts.<sup>2</sup>For 1954, "traffic and street lighting" includes some lamps other than 100-130 volts.<sup>3</sup>The total shipments of photoflash lamps for 1958 include 85.7 million blue photoflash lamps, valued at \$7,011 thousand. Similar data are not available for 1954.<sup>4</sup>For 1954, separate figures are not available by size of lamp.<sup>5</sup>Includes lamps for use in toys, pin games, surgical, medicinal and dental instruments, and for special applications.<sup>6</sup>For 1954, figures not directly comparable to 1958; ozone lamps were included with Sodium Photochemical, and other miscellaneous electrical discharge lamps in 1954.<sup>7</sup>For 1954, wall lamps are included with other (code 3642129).<sup>8</sup>Not strictly comparable due to revision of product detail between 1954 and 1958.<sup>9</sup>Not strictly comparable with figures for 1958. The 1954 figures were reported as "headlights, sealed beam units." Shipments in 1954 totaled 12,985 thousand units.<sup>10</sup>For 1954, Mercury vapor street lighting equipment (code 3642543) and Area lighting equipment (code 3642555) are included with Other fixtures (code 3642481).<sup>11</sup>For 1954, Other electric lighting equipment (code 3642621) is included in Street and highway lighting equipment (code 3642551).<sup>12</sup>For 1954, Light strips (code 3642661) are included in Other fluorescent lighting equipment (code 3642675).<sup>13</sup>For 1954, "Appliance and special application outlets" and "Motor bases, adapters and miscellaneous current taps" were included with "Other current carrying wiring devices."<sup>14</sup>For 1958, figures for "Precision (1/8" gap or less) snap-acting switches" are included with "Other current carrying wiring devices."<sup>15</sup>For 1954, no separate data were collected for product code 3634056. Accordingly, the industry totals for 1958 and 1954 are not strictly comparable.<sup>16</sup>For 1954, approximately 60 percent of the value of "Other current-carrying wiring devices" consists of precious metal and other electrical contacts.<sup>17</sup>Includes an unspecified amount of "Noncurrent carrying wiring devices, nsk."<sup>18</sup>For 1958, figures for product codes 3644231 and 3644232 are included in code 3644236.<sup>19</sup>For 1954, an indeterminable value of "Other noncurrent carrying wiring devices and supplies, nsk," is included with "Electric conduit, nsk."

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States: 1958

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Residential type electric fixtures (36421):</u>		<u>Vehicular lighting equipment, electric (36424):</u>		<u>Current carrying devices (36430)--</u>	
United States, total.....	227,344	United States, total.....	105,970	Continued	
New England.....	8,094	Northeast.....	14,391	West North Central.....	17,670
Massachusetts.....	4,938	New York.....	9,467	Missouri.....	16,711
Middle Atlantic.....	120,634	All other regions.....	91,579	South.....	4,887
New York.....	62,683	Ohio.....	13,938	West.....	42,371
New Jersey.....	22,678	Illinois.....	8,379	California.....	41,662
Pennsylvania.....	33,273				
North Central.....	57,095	<u>Floodlighting and area lighting equipment (36425):</u>		<u>Pole-line and transmission hardware (36441):</u>	
Ohio.....	11,193	United States, total.....	76,308	United States, total.....	81,178
Illinois.....	32,753	Middle Atlantic.....	18,654	Northeast.....	24,035
Michigan.....	1,650	New York.....	8,974	New York.....	7,992
Missouri.....	4,029	New Jersey.....	5,862	Pennsylvania.....	13,987
South.....	15,887	Pennsylvania.....	3,818	East North Central.....	34,912
Florida.....	1,402	North Central.....	42,000	Illinois.....	21,032
Kentucky.....	10,859	Ohio.....	19,074	West North Central.....	7,358
Tennessee.....	1,896	Illinois.....	17,661	South.....	7,119
West.....	25,634	Wisconsin.....	4,133	Alabama.....	6,244
California.....	25,272	All other regions.....	15,654	Pacific.....	7,754
		Massachusetts.....	2,274	California.....	7,649
<u>Commercial and institutional type electric fixtures (36422):</u>		California.....	3,444		
United States, total.....	168,083	<u>Other electric and nonelectric lighting equipment (including hand portable equipment) and parts and accessories (36426):</u>		<u>Electric conduit and conduit fittings (36442):</u>	
New England.....	7,660	United States, total.....	68,872	United States, total.....	201,266
Middle Atlantic.....	44,168	New England.....	15,033	New England.....	12,835
New York.....	19,092	Middle Atlantic.....	14,126	Massachusetts.....	2,187
New Jersey.....	8,782	New York.....	6,279	Connecticut.....	9,798
Pennsylvania.....	16,094	New Jersey.....	4,368	Middle Atlantic.....	110,248
North Central.....	58,528	Pennsylvania.....	3,479	New York.....	18,923
Ohio.....	16,417	North Central.....	21,675	New Jersey.....	13,455
Illinois.....	23,447	Ohio.....	2,905	Pennsylvania.....	77,870
Michigan.....	3,320	Indiana.....	4,117	North Central.....	28,869
Missouri.....	11,886	Illinois.....	6,840	Ohio.....	3,738
South.....	20,935	Missouri.....	1,880	Illinois.....	21,619
West.....	36,792	South.....	12,290	South.....	37,769
California.....	31,179	Texas.....	2,984	West.....	11,545
		West.....	5,748	California.....	11,076
<u>Industrial type electric fixtures (36423):</u>		California.....	5,447		
United States, total.....	62,393	<u>Current carrying devices (36430):</u>		<u>Other noncurrent carrying wiring devices and supplies (36443):</u>	
New England.....	3,653	United States, total.....	509,380	United States, total.....	59,126
Middle Atlantic.....	19,773	New England.....	143,292	Northeast.....	32,430
New York.....	9,994	Massachusetts.....	36,195	New York.....	18,270
New Jersey.....	3,589	Connecticut.....	84,098	New Jersey.....	2,022
Pennsylvania.....	6,190	Middle Atlantic.....	161,434	Pennsylvania.....	11,177
North Central.....	16,533	New York.....	91,609	North Central.....	19,576
Ohio.....	3,161	New Jersey.....	35,495	Ohio.....	11,225
Illinois.....	8,826	Pennsylvania.....	34,330	Illinois.....	10,139
Missouri.....	3,056	East North Central.....	139,726	South.....	2,537
South.....	11,147	Ohio.....	22,941	West.....	4,583
Texas.....	1,289	Indiana.....	15,996	California.....	4,436
West.....	11,287	Illinois.....	89,696		
California.....	10,595	Michigan.....	2,895		
		Wisconsin.....	8,198		

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 36421, Connecticut and Wisconsin; 36422, Massachusetts, Connecticut, Indiana, Wisconsin, West Virginia, Mississippi, Texas, Colorado, and Washington; 36423, Massachusetts, West Virginia, and Mississippi; 36424, Massachusetts, Connecticut, Indiana, Michigan, Missouri, and Delaware; 36425, North Carolina, and Tennessee; 36426, Vermont, Massachusetts, Connecticut, Kansas, Georgia, and Mississippi; 36430, Maine, Rhode Island, and Alabama; 36441, Connecticut, Ohio, Michigan, and Missouri; 36442, Missouri, Maryland, West Virginia, and Georgia; 36443, Indiana, Minnesota, and West Virginia.



## ELECTRIC LIGHTING AND WIRING EQUIPMENT

36C-17

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3642—LIGHTING FIXTURES			
	Materials, components, parts, containers and supplies, total.....		xxx	379,170	xxx	306,102
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	8,464	1,351	13,453	2,050
331212	Sheet and strip.....	do.....	204,006	33,138	219,347	29,865
331215	Structural shapes.....	do.....	10,128	2,033	1,540	266
331217	Wire and wire products.....	do.....	8,803	2,319	9,625	2,398
331213	Plates.....	Short tons....	23,104	3,762	7,123	1,667
331219	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	945	331	...	...
331225	All other alloy steel mill shapes and forms.....	do.....	2,972	1,351	2,542	633
331231	Stainless steel mill shapes and forms.....	do.....	1,351	1,453	6,388	5,443
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction.....	1,000 lbs....	566	323	446	226
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.) (except insulated wire and cable).....	do.....	9,161	5,072	15,253	7,951
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate and foil.....	do.....	12,371	6,718	8,563	4,657
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	10,059	5,459		
333411	Aluminum and aluminum-base alloy refinery shapes.....	Short tons....	1,100	636	4,519	2,324
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	do.....	4,421	1,369	6,310	1,971
332311	Steel.....	do.....	3,371	1,886	1,750	855
336121	Copper and copper-base alloy.....	1,000 lbs....	699	549	2,282	1,318
336111	Aluminum and aluminum-base alloy.....	do.....	7,735	5,567	5,569	3,332
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	r 224,013	xxx	r 223,015
973000	Materials, parts, containers and supplies, nsk.....		xxx	81,840	xxx	18,131

Code	Material	Unit of measure	1958 <sup>2</sup>			
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3643—CURRENT CARRYING DEVICES		INDUSTRY 3644—NONCURRENT CARRYING DEVICES	
	Materials, components, parts, containers and supplies, total.....		xxx	164,208	xxx	168,761
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	619	143	85,529	12,332
331212	Sheet and strip.....	do.....	13,935	3,465	166,654	25,544
331215	Structural shapes.....	do.....	xxx	xxx	1,057	164
331217	Wire and wire products.....	do.....	7,787	2,437	2,530	759
331213	Plates.....	do.....	1,745	365	763	117
331219	All other carbon steel mill shapes and forms.....	do.....			175,145	32,130
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	1,111	418	806	160
331225	All other alloy steel mill shapes and forms.....	do.....			646	351
331231	Stainless steel mill shapes and forms.....	do.....	492	563	443	713
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction.....	1,000 lbs....				
363111	Insulated wire and cable.....	1,000 lbs. copper content	r 3,490	r 1,549	(3)	9,219
			4,438	3,698	(3)	
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs....	28,289	16,505	4,450	2,506
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate, and foil.....	do.....	2,810	1,675	1,823	1,059
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	1,842	1,031	4,896	2,613
	Primary metals and scrap:					
331251	Pig iron.....	Short tons....	xxx	xxx	8,703	537
333111	Copper and copper-base alloy refinery shapes.....	do.....	4,428	2,760	1,551	906
333411	Aluminum and aluminum-base alloy refinery shapes.....	do.....	505	242	1,514	728
333311	Zinc and zinc-base alloy refinery shapes.....	do.....	xxx	xxx	13,489	2,983
	Scrap:					
941011	Iron and steel.....	do.....	xxx	xxx	12,154	710
941021	Copper and copper-base alloy.....	do.....	1,311	660	xxx	xxx
941031	Aluminum and aluminum-base alloy.....	do.....	2,209	550	804	436
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	do.....	482	311	16,719	7,953
332311	Steel.....	do.....	272	242	410	283
336121	Copper and copper-base alloy.....	1,000 lbs....	3,050	2,211	994	789
336111	Aluminum and aluminum-base alloy.....	do.....	1,362	1,265	5,137	3,567
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	r 97,159	xxx	59,695
973000	Materials, parts, containers and supplies, nsk.....		xxx	26,959	xxx	2,607

NA Not available.

<sup>2</sup>Revised.<sup>1</sup>Does not include castings produced and consumed in the same establishment for Industries 3642 or 3643.<sup>2</sup>Data for 1954 not available.<sup>3</sup>Quantity is not available for bare wire. However, between 1,000 and 1,500 thousand pounds of insulated wire and cable were consumed by Industry 3644.<sup>4</sup>In addition, establishments in 3644 produced 3,082 thousand pounds of aluminum and aluminum-base alloy castings for incorporation into other items produced at the same establishment.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3641	ELECTRIC LAMPS (entire industry).....	66	21,495	95,298	18,236	35,119	73,625	270,498	136,158	417,516	8,276
	Establishments with:										
	90% or more specialization.....	56	16,537	70,292	14,491	27,676	57,208	233,323	115,825	359,781	6,280
3642	LIGHTING FIXTURES (entire industry)....	1,181	47,309	215,829	36,443	71,605	143,786	397,378	419,912	826,595	14,415
	Establishments with:										
	90% or more specialization.....	1,091	33,813	147,929	26,657	52,320	99,269	284,042	320,128	605,192	10,284
	75-89% specialization.....	25	6,381	33,212	4,860	9,366	23,402	54,730	45,291	102,052	2,091
36421	Residential type electric fixtures (primary product class of estab.)..	487	15,008	61,167	11,918	23,075	41,483	113,416	130,680	244,714	2,926
	Establishments with:										
	90% or more specialization....	430	11,654	46,656	9,488	18,310	32,181	90,320	105,901	195,318	2,268
	75-89% specialization.....	16	851	4,007	644	1,242	2,476	6,593	5,405	12,073	167
36422	Commercial and institutional type electric fixtures (primary product class of estab.).....	136	10,638	51,657	8,152	16,833	33,432	100,183	101,081	200,754	2,972
	Establishments with:										
	90% or more specialization....	61	3,719	18,048	2,800	5,690	11,593	32,742	29,586	62,814	1,097
	75-89% specialization.....	22	2,510	12,219	2,044	4,359	8,567	22,417	22,922	44,765	894
36423	Industrial type electric fixtures (primary product class of estab.)..	122	2,175	10,280	1,565	3,053	6,515	16,830	22,342	39,563	1,184
	Establishments with:										
	90% or more specialization....	107	1,089	4,838	847	1,668	3,348	8,634	13,234	21,876	631
36424	Vehicular lighting equipment, electric (primary product class of estab.).....	31	8,406	41,450	6,703	13,164	30,023	66,227	58,164	130,043	2,635
	Establishments with:										
	90% or more specialization....	16	2,273	10,827	1,842	3,725	7,364	18,898	20,668	40,594	818
36425	Floodlighting and area lighting equipment (primary product class of estab.).....	30	4,387	25,078	2,813	5,719	13,460	47,144	54,044	103,884	2,099
	Establishments with:										
	90% or more specialization....	13	890	4,763	637	1,279	2,533	9,845	14,206	23,977	372
36426	Other electric and nonelectric lighting equipment and parts and accessories (primary product class of estab.).....	56	3,026	12,932	2,418	4,599	8,993	27,013	23,097	50,313	1,043
	Establishments with:										
	90% or more specialization....	33	1,662	6,311	1,385	2,549	4,525	15,073	14,252	29,656	741
	75-89% specialization.....	8	258	1,034	153	299	550	1,937	1,571	3,481	59
3643	CURRENT CARRYING DEVICES (entire industry).....	422	34,808	151,687	25,962	50,383	97,718	294,189	189,429	486,186	9,629
	Establishments with:										
	90% or more specialization.....	331	21,201	92,737	15,905	30,989	59,369	185,752	125,115	310,162	7,029
	75-89% specialization.....	22	3,928	17,677	2,686	5,588	10,126	31,958	13,641	46,122	1,010
3644	NONCURRENT CARRYING DEVICES (entire industry).....	150	19,722	101,382	14,574	28,741	67,772	214,607	193,003	413,758	9,976
	Establishments with:										
	90% or more specialization.....	100	7,030	35,184	5,576	10,821	25,318	83,755	101,962	188,762	3,874
	75-89% specialization.....	22	4,079	21,056	2,978	6,045	13,602	42,460	25,955	70,239	2,758
36441	Pole-line and transmission hardware (primary product class of estab.)..	27	5,722	30,784	4,142	8,080	20,232	59,674	48,026	108,219	2,857
	Establishments with:										
	90% or more specialization....	11	1,631	8,295	1,156	2,145	5,808	18,031	14,117	33,410	479
	75-89% specialization.....	7	1,188	6,250	864	1,744	4,096	13,205	10,139	23,540	1,195
36442	Electric conduit and conduit fitting (primary product class of estab.).....	56	8,103	42,485	5,976	11,986	27,785	96,237	114,954	212,977	4,859
	Establishments with:										
	90% or more specialization....	34	3,840	19,665	3,109	6,116	14,151	50,575	76,218	128,214	3,041
	75-89% specialization.....	8	808	3,779	641	1,259	2,409	7,730	4,852	12,742	271
36443	Other noncurrent carrying wiring devices (primary product class of estab.).....	67	5,897	28,113	4,456	8,675	19,755	58,696	30,023	91,962	2,260
	Establishments with:										
	90% or more specialization....	47	1,091	5,011	929	1,789	3,832	9,686	8,525	18,526	322



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation										
	Establishments				Employment in the specified operation						
	Total	Number of production workers			Total	Number of production workers					
		1-4	5-19	20 or more		1-4	5-19	20 or more			
INDUSTRY 3641—ELECTRIC LAMPS											
Machine shop.....	16	2	9	5	468	(D)	(D)	370			
Stamping, blanking, and forming.....	2	2	...	...	(D)	(D)	...	...			
Painting, lacquering, and enameling.....	7	3	3	1	95	7	(D)	(D)			
INDUSTRY 3642—LIGHTING FIXTURES											
Ferrous foundry.....	2	...	...	2	(D)	...	...	(D)			
Nonferrous foundry (except die casting).....	11	7	3	1	78	16	(D)	(D)			
Nonferrous die casting.....	17	8	8	1	255	21	(D)	(D)			
Electroplating.....	80	45	25	10	690	114	215	361			
Galvanizing and other hot dip coating.....	10	7	3	...	49	16	36	...			
Heat treating and annealing.....	24	21	3	...	62	38	24	...			
Automatic screw machine department.....	16	11	4	1	78	24	(D)	(D)			
Machine shop.....	136	71	45	20	1,447	155	417	875			
Tool and die shop.....	110	73	31	6	868	143	279	446			
Plate or structural fabrication.....	36	15	15	6	652	30	151	471			
Stamping, blanking, and forming.....	218	70	87	61	3,833	159	802	2,872			
Painting, lacquering, and enameling.....	311	182	105	24	3,997	394	920	2,683			
Distribution by number of production workers in the operation											
Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation			
								(1,000)			
Total	Number of production workers			Total	Number of production workers			Total	Number of production workers		
	1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3643—CURRENT CARRYING DEVICES											
Total, all operations.....	...	...	...	20,324	...	...	...	33,784	...	...	...
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)	...	...	(D)
Nonferrous foundry (except die casting).....	6	2	2	2	64	(D)	(D)	134	(D)	(D)	(D)
Nonferrous die casting.....	7	5	...	2	120	(D)	...	231	(D)	...	(D)
Forging.....	1	...	...	1	(D)	...	...	(D)	...	...	(D)
Electroplating.....	35	17	14	4	409	30	126	253	676	45	177
Galvanizing and other hot dip coating.....	5	2	2	1	46	(D)	(D)	(D)	91	(D)	(D)
Heat treating and annealing.....	24	19	5	...	86	36	50	...	120	58	62
Automatic screw machine department.....	34	19	9	6	529	45	100	384	894	86	197
Machine shop.....	72	20	30	22	1,603	53	285	1,265	2,541	88	1,557
Tool and die shop.....	64	21	27	16	971	56	223	692	1,798	91	416
Foundry pattern shop.....	3	1	2	...	26	(D)	(D)	...	50	(D)	(D)
Plate or structural fabrication.....	2	...	2	...	(D)	...	(D)	...	(D)	...	...
Stamping, blanking, and forming.....	77	27	30	20	2,106	60	352	1,694	3,902	89	570
Painting, lacquering, and enameling.....	30	23	5	2	148	35	(D)	(D)	154	59	(D)
Plastics molding.....	34	7	16	11	913	16	166	731	1,476	27	333
Assembly of product.....	94	10	22	62	9,709	23	241	9,445	15,162	44	482
Shipping department (including packing and crating).....	88	54	26	8	712	110	224	378	1,150	208	438
All other operations.....	60	14	20	26	2,763	32	222	2,509	5,185	61	501
											4,623

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation											
	Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation			
									(1,000)			
	Total	Number of production workers			Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3644—NONCURRENT CARRYING DEVICES												
Total, all operations.....	...	...	...	...	12,464	...	...	...	25,332	...	...	...
Ferrous foundry.....	5	...	1	4	554	...	(D)	(D)	809	...	(D)	(D)
Nonferrous foundry (except die casting).....	9	...	3	6	432	...	32	400	741	...	58	683
Nonferrous die casting.....	4	2	2	...	27	(D)	(D)	...	52	(D)	(D)	...
Forging.....	13	...	3	10	552	...	30	522	983	...	54	929
Electroplating.....	22	13	5	4	270	32	57	181	521	53	106	362
Galvanizing and other hot dip coating.....	24	1	8	15	942	(D)	(D)	841	1,835	(D)	(D)	1,660
Heat treating and annealing.....	15	12	3	...	38	19	19	...	70	32	38	...
Automatic screw machine department.....	12	5	4	3	240	12	31	197	456	23	53	380
Machine shop.....	54	9	26	19	1,472	22	235	1,215	2,784	46	452	2,286
Tool and die shop.....	50	23	19	8	498	58	169	271	977	116	326	535
Foundry pattern shop.....	9	4	4	1	86	11	(D)	(D)	164	17	(D)	(D)
Plate or structural fabrication.....	7	3	2	2	133	8	(D)	(D)	248	41	(D)	(D)
Stamping, blanking, and forming.....	62	10	23	29	1,630	21	184	1,425	4,961	2,037	327	2,597
Painting, lacquering, and enameling.....	32	22	7	3	245	48	60	137	457	79	111	267
Plastics molding.....	7	3	3	1	61	5	(D)	(D)	116	11	(D)	(D)
Assembly of product.....	72	11	25	36	2,765	29	293	2,443	5,291	56	539	4,696
Shipping department (including packing and crating).....	83	40	33	10	920	99	315	506	1,797	183	606	1,008
All other operations.....	42	6	17	19	1,599	17	183	1,399	3,070	19	334	2,717

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry			
	3641	3642	3643	3644
Total number of establishments in the industry.....	66	1,181	422	150
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	44	965	394	143
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	75-80	85-90	90-95	90-95

D Withheld to avoid disclosing the operations of individual companies.



# Communication Equipment, Including Radio and TV, and Electronic Components and Accessories

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries—

## S.I.C. Code and Title (1957 Edition)

- 3651—Radio and Television Receiving Sets, Except Communication Types
- 3652—Phonograph Records
- 3661—Telephone and Telegraph Apparatus
- 3662—Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus
- 3671—Radio and Television Receiving Type Electron Tubes, Except Cathode Ray
- 3672—Cathode Ray Picture Tubes
- 3673—Transmitting, Industrial, and Special Purpose Electron Tubes
- 3679—Electronic Components and Accessories, Not Elsewhere Classified

Industries included in this bulletin produce the bulk of electronic equipment, i.e., radios, television sets, electron tubes, etc., but also produce some communications equipment other than electronic (Industry 3661).

Component parts are generally included in the industry of the end product with the exception of certain general purpose components which are specifically classified elsewhere in the Standard Industrial Classification. Electronic components are frequently produced and consumed at the same location by establishments classified in this major group. Thus, there are (1) plants solely engaged in producing electronic components; (2) plants producing electronic components and assembling them into finished products; and (3) plants which assemble components produced elsewhere either in other plants of the same company or by other companies.

## 3651—Radio and Television Receiving Sets, Except Communication Types

This industry comprises establishments primarily engaged in manufacturing equipment for home entertainment. This industry also includes establishments primarily engaged in manufacturing public address systems, and music distribution apparatus, except records. Establishments primarily engaged in manufacturing records are classified in Industry 3652; radio and television receiving type tubes in Industry 3671; and television receiving type cathode ray tubes in Industry 3672. For a detailed list of products of Industry 3651, refer to table 6A, product codes 3651110 to 3651391.

Industry 3651 was formerly part of Industry 3661 (old S.I.C.). Prior to the reclassification of this industry under the 1957 edition of the Standard Industrial Classification Manual, Industry 3651 (new), Radio and TV Receiving Sets; Industry 3662 (new), Radio, TV Communication Equipment, and part of Industry 3679 (new), Electronic Components, N.E.C., were classified as one Industry 3661 (old), Radios and Related Products. The composition of

the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3651, comparable data for that portion of old Industry 3661 which became new Industry 3651.

Value of shipments and other receipts of the Radio and TV Receiving Sets Industry in 1958 totaled \$1,548 million. This included shipments of radio and TV receiving sets (primary products), valued at \$1,364 million, shipments of other products (secondary products) valued at \$130 million, and miscellaneous receipts (mainly resales) of \$54 million.

This industry's shipments of radio and TV receiving sets (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted of electronic components and accessories, n.e.c., \$28 million; commercial, industrial, and military electronic communication equipment, \$16 million; and equipment for testing electrical, radio, and communication circuits and motors, \$8 million.

While the primary products of the industry include household and automobile radios, and radio-phonograph combinations; household television receivers, including television combinations; and recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 33 percent of the total industry shipments are represented by plants specializing in 36511, Household radios, phonographs, and radio-phonographs; 52 percent in 36512, Household television receivers, including television combinations; and 15 percent in 36513, Recorders, audio amplifiers, tuners and other audio equipment.

Industry 3651 shipments of radio and TV receiving sets (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$1,516 million shipped by all industries. Other industries shipping radio and TV receiving sets, except communication (primary products) consisted mainly of Industry 3662, Radio, TV Communication Equipment, over \$53 million; and Industry 3679, Electronic Components, N.E.C., \$23 million.

## 3652—Phonograph Records

This industry comprises establishments primarily engaged in manufacturing phonograph records and prerecording magnetic tapes. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records, are classified in Industry 3651. For a detailed list of products of Industry 3652, refer to table 6A, product codes 3652012 to 3652091.

The statistics for this industry as classified under the 1957 edition of the Standard Industry Classification Manual were changed to code number 3652 from code number 3663 in the previous classification system but were not changed as to content.



Value of shipments and other receipts of the Phonograph Records Industry in 1958 totaled \$149 million. This included shipments of phonograph records (primary products), valued at \$133 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly resales) of \$12 million.

This industry's shipments of phonograph records (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 94 percent. Secondary products shipped by this industry in 1958 consisted mainly of blank books, \$3 million.

Industry 3652 shipments of phonograph records (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$136 million shipped by all industries. In 1954, the coverage ratio was 97 percent. Another industry shipping phonograph records (primary products) was Industry 3579, Office Machines, N.E.C., \$2 million.

### 3661—Telephone and Telegraph Apparatus

This industry comprises establishments primarily engaged in manufacturing wire telephone and telegraph equipment and parts especially designed for telephone and telegraph use. For a detailed list of products of Industry 3661, refer to table 6A, product codes 3661111 to 3661271.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3661 from code number 3664 in the previous classification system but were only slightly changed as to content.

Both microwave and mobile telephone (communication) equipment, formerly classified in this industry, are now considered primary to Industry 3662, Radio, TV Communication Equipment.

Data on cost of materials and value of shipments of Industry 3661 include extensive duplication resulting from the use of the products of some establishments of a company as materials by other establishments within the same company. These "interplant transfers" would appear twice in the total value of shipments, since both complete telephone and telegraph sets, as well as component parts, are classified in Industry 3661. A corresponding duplication exists in the total cost of materials. Totals are therefore not shown for cost of materials and value of shipments. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

In view of the duplication in value of shipments, the exact "primary product specialization ratio" for this industry cannot be computed. Similarly, the exact "coverage ratio" for Industry 3661 cannot be computed. This "coverage ratio" measures the extent to which all shipments of primary products of an industry are "covered" by plants classified in that industry as distinguished from secondary producers elsewhere. Both the "specialization" and "coverage" ratios for Industry 3661 are estimated at about 90 percent.

During 1958, value added by manufacture in the Telephone and Telegraph Equipment Industry amounted to \$741 million. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results

from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas.

Secondary products shipped by this industry in 1958 consisted of commercial, industrial, and military electronic communication equipment, \$18 million; intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems devices, \$3 million; and other electronic components and accessories, n.e.c., \$1 million. The remaining \$56 million of secondary products can not be broken down further without disclosing the operations of individual companies.

While the primary products of the industry include telephone switching and switchboard equipment, and other telephone and telegraph (wire) apparatus, equipment, and components, the degree to which plants specialize in the manufacture of each of these is indicated in table 8.

### 3662—Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus

This industry comprises establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operation apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; and (4) other electric and electronic communication and signaling products, not elsewhere classified. Establishments primarily engaged in manufacturing transmitting tubes are classified in Industry 3673. For a detailed list of products of Industry 3662, refer to table 6A, product codes 3662112 to 3662661.

Industry 3662 was formerly part of Industry 3661 (old SIC) and Industry 3669 (old SIC). Prior to the reclassification of this industry under the 1957 edition of the Standard Industrial Classification Manual, Industry 3651 (new), Radio and TV Receiving Sets, Industry 3662 (new), Radio, TV Communication Equipment, and part of Industry 3679 (new), Electronic Components, N.E.C., were classified as one Industry, 3661 (old), Radios and Related Products.

The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3662, comparable data for that portion of old Industry 3661, and the total old Industry 3669, which became new Industry 3662.

Electric gongs, chimes and bells, formerly classified in old Industry 3669, Communication Equipment N.E.C., are now considered primary to new Industry 3699, Electrical Products, N.E.C.; and microwave and mobile telephone equipment, formerly classified in old Industry 3664, Telephone and Telegraph Equipment, are included in new Industry 3662, Radio, TV Communication Equipment.

Value of shipments and other receipts of the Radio, TV Communication Equipment industry in 1958 totaled \$2,414 million. This included shipments of radio and TV communication equipment (primary products), valued at \$1,607 million, shipments of other products (secondary products) valued at \$322 million, and miscellaneous receipts (main-



ly sales of scrap and refuse and miscellaneous repair work) of \$485 million.

This industry's shipments of radio and TV communication equipment (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of household radios, phonographs, and radio-phonographs, \$41 million; other electronic components, including parts for electron tubes, n.e.c., \$36 million; household TV receivers and TV combinations, \$32 million; computing and accounting machines, \$21 million; test equipment, \$17 million; other aircraft assemblies, \$14 million; aircraft flight instruments, \$10 million; and recorders, audio amplifiers, and other audio equipment and accessories, \$9 million. The remaining \$141 million cannot be broken down further without disclosing the operations of individual companies.

While the primary products of the industry include radio and TV commercial communication equipment, radio and TV broadcast equipment, intercommunication equipment, electronic navigational aids, electronic aircraft and missile control systems, and other commercial, industrial, and military electronic equipment, n.e.c., the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 29 percent of the total industry shipments are represented by plants specializing in 36621, Radio and television commercial communication equipment; 1 percent in 36622, Radio and television broadcast equipment; 6 percent in 36623, Intercommunication equipment; 8 percent in 36624, Electronic navigational aids; 36 percent in 36625, Electronic aircraft and missile control, guidance and check-out Systems; and 19 percent in Other electronic equipment, n.e.c.

Industry 3662 shipments of radio and TV communication equipment (primary products) in 1958 represented 81 percent (coverage ratio) of these products valued at \$1,991 million shipped by all industries. Other industries shipping radio and TV communication equipment (primary products) consisted mainly of Major Group 19, Ordnance and Accessories, \$134 million; Industry 3661, Telephone and Telegraph Apparatus, over \$20 million; and Industry 3651, Radio and TV Receiving Sets, over \$21 million.

#### 3671—Radio and Television Receiving Type Electron Tubes, Except Cathode Ray

This industry comprises establishments primarily engaged in manufacturing radio and television receiving type electron tubes, except cathode ray tubes. Establishments primarily engaged in manufacturing television receiving type cathode ray tubes are classified in Industry 3672; transmitting tubes in Industry 3673; X-ray tubes in Industry 3693; and electronic equipment for home entertainment, except tubes, in Industry 3651. For a detailed list of products of Industry 3671, refer to table 6A, product codes 3671011 to 3671051.

Industry 3671 was formerly part of Industry 3662 (old SIC). Prior to the reclassification of this Industry under the 1957 edition of the Standard Industrial Classification Manual, Industry 3671 (new), Electron Tubes, Receiving Type; Industry 3672 (new), Cathode Ray Picture Tubes; Industry 3673 (new), Electron Tubes, Transmitting; and part of new Industry 3679 (relating to electron tube parts), were classified as one Industry 3662 (old), Electron Tubes.

The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3671, comparable data for that portion of old Industry 3662 which became new Industry 3671.

Value of shipments and other receipts of the Electron Tubes, Receiving Type Industry in 1958 totaled \$383 million. This included shipments of electron tubes, receiving type (primary products), valued at \$324 million, shipments of other products (secondary products) valued at \$38 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$21 million.

This industry's shipments of electron tubes, receiving type (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3662 shipments of electron tubes, receiving type (primary products) in 1958 represented 96 percent (coverage ratio) of these products valued at \$337 million shipped by all industries. Another industry shipping electron tubes, receiving type (primary products) was Industry 3679, Electronic Components, N.E.C., over \$2 million.

#### 3672—Cathode Ray Picture Tubes

This industry comprises establishments primarily engaged in manufacturing television receiving type cathode ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving type electron tubes are classified in Industry 3671; and transmitting tubes in Industry 3673.

Industry 3672 was formerly part of Industry 3662 (old SIC). Prior to the reclassification of this industry under the 1957 edition of the Standard Industrial Classification Manual, Industry 3671 (new), Electron Tubes, Receiving Type; Industry 3672 (new), Cathode Ray Picture Tubes; Industry 3673 (new), Electron Tubes, Transmitting; and part of new Industry 3679 (relating to electron tube parts), were classified in Industry 3662 (old), Electron Tubes. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3672, comparable data for that portion of old Industry 3662 which became new Industry 3672.

Value of shipments and other receipts of the Cathode Ray Picture Tubes Industry in 1958 totaled \$159 million. This included shipments of cathode ray picture tubes (primary products), valued at \$149 million, shipments of other products (secondary products), valued at \$6 million, and miscellaneous receipts (mainly resales) of \$4 million.

This industry's shipments of cathode ray picture tubes (primary products) in 1958 represented 96 percent (specialization ratio) of its total product shipments (primary and secondary).

Industry 3672 shipments of cathode ray picture tubes (primary products) in 1958 represented 84 percent (coverage ratio) of these products valued at \$177 million shipped by all industries. Other industries shipping cathode ray picture tubes (primary products) consisted mainly of Industries 3671, Electron Tubes, Receiving Type; and 3673, Electron Tubes, Transmitting, each over \$2 million.



### 3673-Transmitting, Industrial, and Special Purpose Electron Tubes

This industry comprises establishments primarily engaged in manufacturing transmitting, industrial, and special purpose electron tubes. Establishments primarily engaged in manufacturing radio and television transmitting equipment are classified in Industry 3662; radio and television receiving tubes in Industry 3671; television receiving type cathode ray tubes in Industry 3672; and X-ray tubes in Industry 3693. For a detailed list of products of Industry 3673, refer to table 6A, product codes 3673012 to 3673098.

Industry 3673 was formerly part of Industry 3662 (old S.I.C.). Prior to the reclassification of this Industry under the 1957 edition of the Standard Industrial Classification Manual, Industry 3671 (new), Electron Tubes, Receiving Type; Industry 3672 (new), Cathode Ray Picture Tubes; Industry 3673 (new), Electron Tubes, Transmitting; and part of new Industry 3679 (relating to electron tube parts), were classified in Industry 3662 (old), Electron Tubes. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3673, comparable data for that portion of old Industry 3662 which became new Industry 3673.

Value of shipments and other receipts of the Electron Tubes, Transmitting Industry in 1958 totaled \$259 million. This included shipments of electron tubes, transmitting (primary products), valued at \$181 million, shipments of other products (secondary products) valued at \$40 million, and miscellaneous receipts (mainly sales of scrap and refuse and miscellaneous repair work) of \$38 million.

This industry's shipments of electron tubes, transmitting (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of cathode ray picture tubes, \$18 million; other electronic components and accessories, n.e.c., \$5 million; and, test equipment, \$3 million.

Industry 3673 shipments of electron tubes, transmitting (primary products) in 1958 represented 81 percent (coverage ratio) of these products valued at \$225 million shipped by all industries. Other industries shipping electron tubes, transmitting (primary products) consisted mainly of Industries 3611, Electric Measuring Instruments; 3621, Motors and Generators; 3671, Electron Tubes, Receiving Type; 3679, Electronic Components, N.E.C.; and Major Group 19, Ordnance and Accessories, all \$2 million or more each.

### 3679-Electronic Components and Accessories, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing specialty resistors for electronic end products; solid state electronic devices and similar devices; inductors; electronic transformers, and capacitors; and other electronic components, n.e.c. Establishments primarily engaged in manufacturing resistors, inductors, and transformers for telephone and telegraph apparatus are classified in Industry 3661; and electric lamps in Industry 3641. For a detailed list of products of In-

dustry 3679, refer to table 6A, product codes 3679111 to 3679598.

Industry 3679 was formerly part of Industry 3661 (old S.I.C.) and part of Industry 3662 (old S.I.C.). Prior to the reclassification of this Industry under the 1957 edition of the Standard Industrial Classification Manual, Industry 3651 (new), Radios and TV Receiving Sets; Industry 3662 (new), Radio, TV Communication Equipment; and part of Industry 3679 (new), Electronic Components, N.E.C., were classified as one Industry 3661 (old), Radios and Related Products. Also, Industry 3671 (new), Electron Tubes, Receiving Type; Industry 3672 (new), Cathode Ray Picture Tubes; Industry 3673 (new), Electron Tubes, Transmitting, and part of new Industry 3679 (relating to electron tube parts), were classified as one Industry 3662 (old), Electron Tubes. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3679, comparable data for that portion of old Industries 3661 and 3662 which became new Industry 3679.

In addition, connectors for electronic applications formerly classified in this industry are now considered primary to Industry 3643, Current Carrying Wiring.

Value of shipments and other receipts of the Electronic Components, N.E.C., Industry in 1958 totaled \$1,442 million. This included shipments of electronic components, n.e.c. (primary products), valued at \$1,208 million, shipments of other products (secondary products) valued at \$170 million, and miscellaneous receipts (mainly resales) of \$64 million.

This industry's shipments of electronic components, n.e.c. (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted partly of recorders, amplifiers, and other audio equipment and accessories, \$23 million; electron tubes, transmitting, \$17 million; and, capacitors for industrial use, \$12 million. Most of the remaining \$118 million cannot be broken down further without disclosing the operations of individual companies.

While the primary products of the industry include solid state semiconductor devices; capacitors for electronic applications; resistors for electronic applications; coils, transformers, reactors and chokes for electronic applications; and other electronic components, n.e.c., the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 16 percent of the total industry shipments are represented by plants specializing in 36791, Solid state semiconductor devices; 14 percent in 36792, Capacitors for electronic applications; 9 percent in 36793, Resistors for electronic applications; 14 percent in 36794, Coils, transformers, reactors and chokes for electronic applications; and 40 percent in 36795, Other electronic components n.e.c.

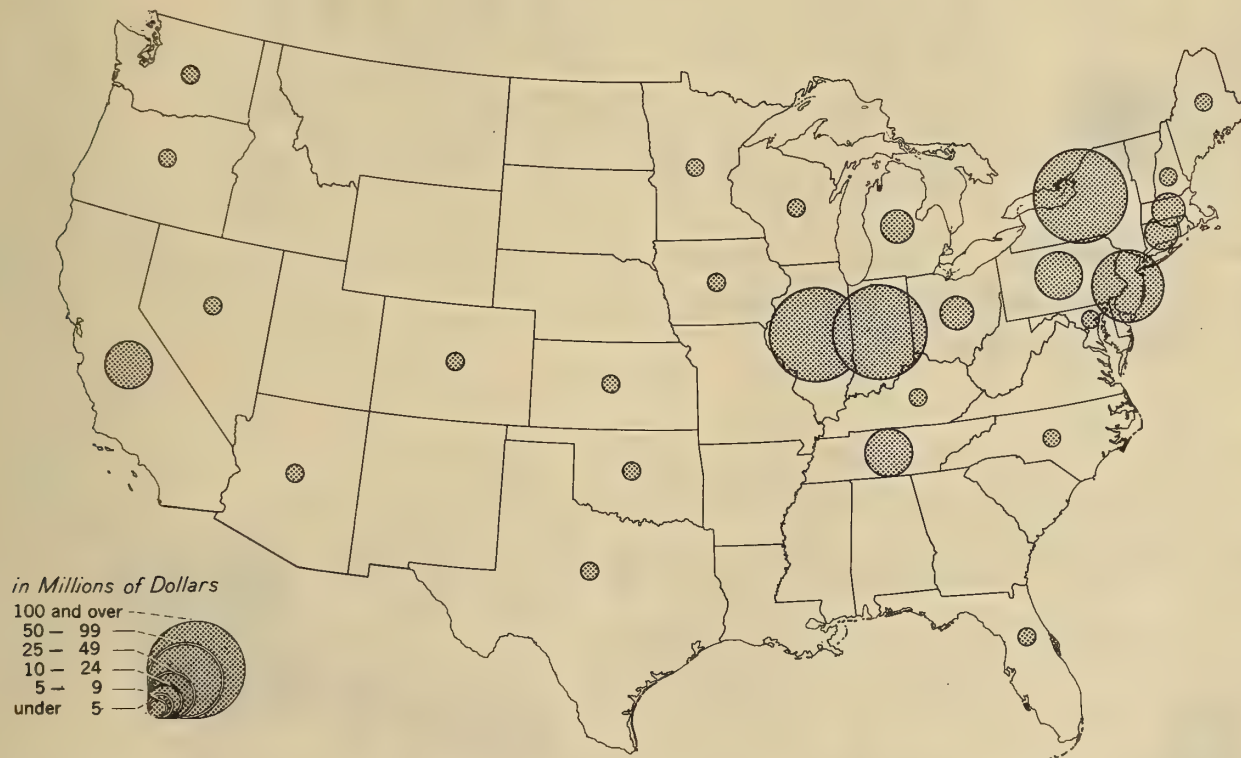
Industry 3679 shipments of electronic components, n.e.c. (primary products) in 1958 represented 82 percent (coverage ratio) of these products valued at \$1,477 million shipped by all industries. Other industries shipping electronic components, n.e.c. (primary products) consisted mainly of Industry 3662, Radio, TV Communication Equipment, over \$38 million; and, Industry 3651, Radio and TV Receiving Sets, over \$30 million.



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## RADIO AND TELEVISION RECEIVING SETS, EXCEPT COMMUNICATION TYPES: SIC 365

Value Added by Manufacture by State: 1958

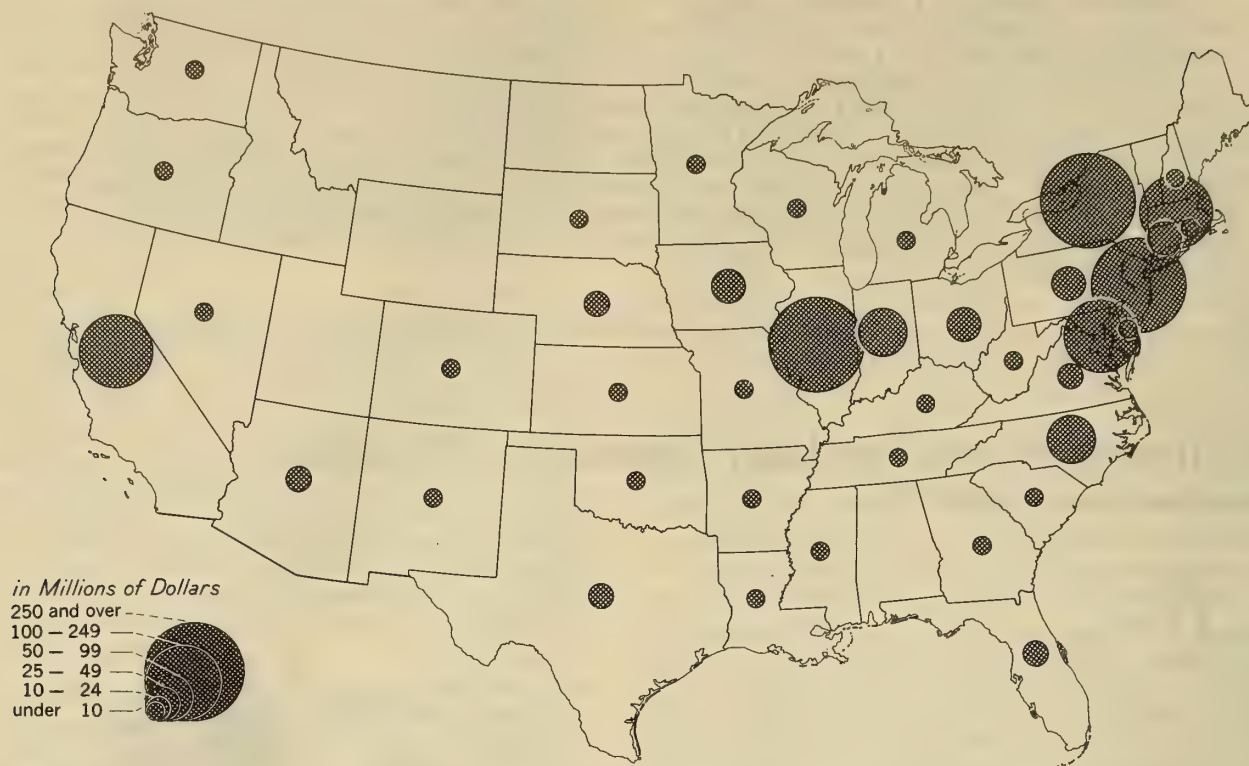


Includes Industries 3651 and 3652. See Table 2.

Bureau of the Census M-58-D365

## COMMUNICATION EQUIPMENT: SIC 366

Value Added by Manufacture by State: 1958

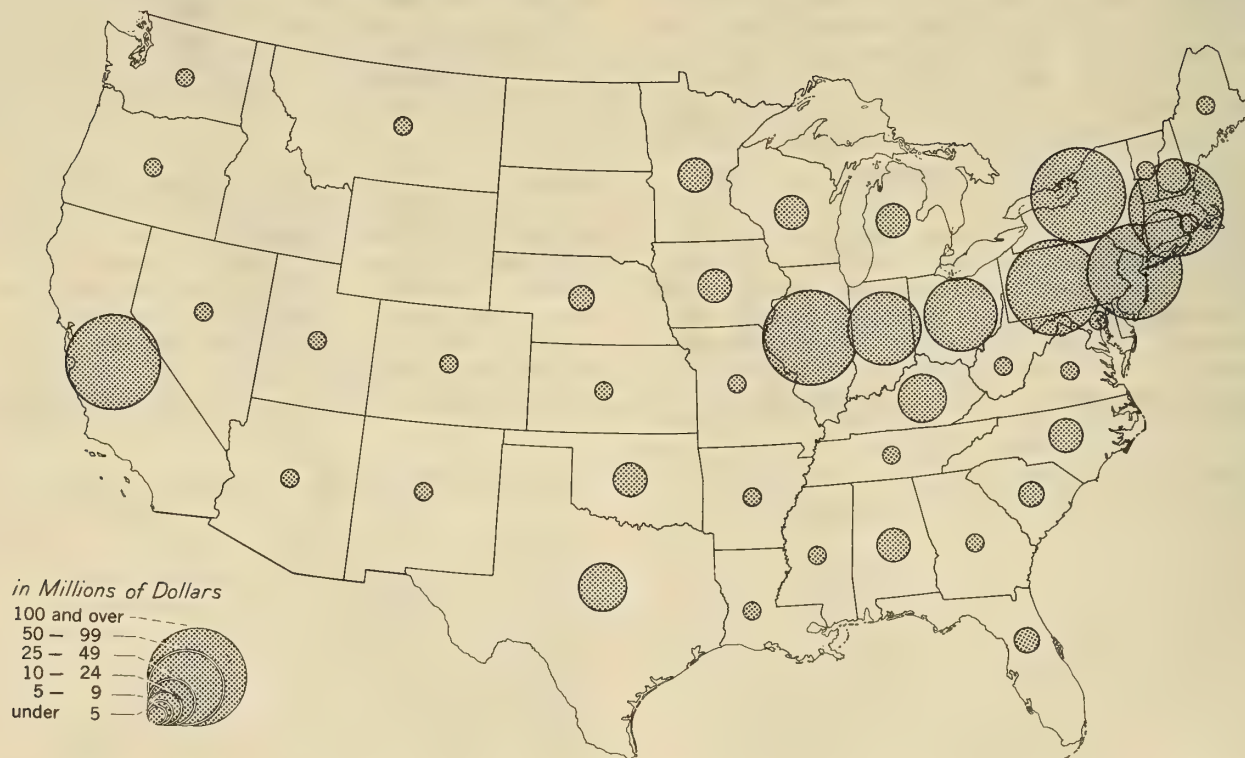


Includes Industries 3661 and 3662. See Table 2.

Bureau of the Census M-58-D366

## ELECTRONIC COMPONENTS AND ACCESSORIES: SIC 367

Value Added by Manufacture by State: 1958



Includes Industries 3671, 3672, 3673 and 3679. See Table 2.

Bureau of the Census M-58-D367



Table 1.—General Statistics for the United States. 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted (\$1,000)	Cost of materials <sup>4</sup> (\$1,000)	Value of shipments <sup>5</sup> (\$1,000)	Capital expenditures, new (\$1,000)	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3651	Radio and TV receiving sets: 1958.....	216	234	144	66,505	292,664	52,047	100,487	196,565	593,953	936,314	1,548,006	11,308	91	90
3652 (old SIC 3663)	Phonograph records:														
	1958.....	85	94	53	7,421	33,381	5,858	12,158	23,739	93,073	58,704	148,731	4,011	97	98
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,099	28,943	5,255	11,008	20,626	88,875	36,570	121,542	2,810	97	96
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,376	26,122	4,921	10,133	18,854	78,511	30,236	104,889	3,470	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,960	23,336	4,506	9,322	16,024	59,225	25,297	82,650	3,328	(NA)	(NA)
	1954.....	135	143	34	6,152	23,312	4,740	9,451	15,685	58,689	33,849	92,546	2,992	94	97
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,624	24,679	5,317	11,049	18,553	62,763	29,269	92,032	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,539	20,282	4,335	8,928	15,239	58,910	23,581	82,309	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,867	19,600	4,607	9,378	14,937	58,233	25,898	83,943	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,572	20,633	5,099	10,842	15,269	56,852	25,436	82,106	(NA)	(NA)	(NA)
	1947.....	96	111	(NA)	10,045	29,193	8,246	17,595	22,840	75,660	38,951	110,184	(NA)	96	99
	1939.....	(NA)	24	(NA)	(NA)	(NA)	926	(NA)	1,128	6,424	3,003	9,427	(NA)	(NA)	(NA)
3661	Telephone; telegraph apparatus:														
	1958.....	67	995	55	85,544	460,499	55,547	107,833	275,071	740,855	(10)	(10)	103,517	(9)	(9)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	91,885	500,266	62,786	122,685	309,172	840,217	(10)	(10)	132,170	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	82,443	449,657	58,435	119,875	285,920	775,837	(10)	(10)	73,179	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	69,304	367,273	49,139	102,284	233,889	632,837	(10)	(10)	39,643	(NA)	(NA)
	1954.....	56	74	55	64,663	300,589	43,717	84,627	184,124	500,196	(10)	(10)	22,144	(NA)	(NA)
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	66,106	309,881	44,892	90,582	189,964	488,285	(10)	(10)	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	63,262	288,214	43,191	89,396	177,882	482,999	(10)	(10)	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,696	235,382	36,907	75,853	144,664	397,292	(10)	(10)	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,863	191,591	32,518	63,512	113,493	303,970	(10)	(10)	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	58,504	206,357	38,817	72,693	127,722	334,011	(10)	(10)	(NA)	(NA)	(NA)
	1947.....	50	90	53	76,072	258,567	53,630	108,687	167,488	384,417	(10)	(10)	39,280	(NA)	(NA)
	1939.....	(NA)	(NA)	(NA)	(NA)	(NA)	14,433	(NA)	26,977	98,715	(10)	(10)	(NA)	(NA)	(NA)
3662	Radio, TV communication equipment:														
	1958.....	472	512	260	129,515	743,399	78,137	157,118	377,246	1,297,583	1,098,351	2,414,620	43,935	83	81
3671	Electron tubes, receiving type:														
	1958.....	71	85	41	36,968	149,540	30,931	57,271	110,707	285,799	92,260	382,526	11,514	89	96
3672	Cathode ray picture tubes:														
	1958.....	72	75	30	8,554	38,092	6,955	14,183	27,570	67,472	91,972	159,252	1,406	96	84
3673	Electron tubes, transmitting:														
	1958.....	40	48	44	20,146	102,150	14,475	29,472	65,134	165,803	90,669	258,474	9,021	83	81
3679	Electronic components, nec:														
	1958.....	1,348	1,479	737	132,242	564,021	102,881	201,387	367,326	914,811	548,973	1,445,684	50,306	88	82

NA Not available. <sup>8</sup>Revised.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)
3652	57,387
3661	497,829

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3651	903,679	(NA)	3672	89,014	(NA)
3652	49,818	27,269	3673	84,444	(NA)
3662	984,787	(NA)	3679	525,475	(NA)
3671	80,578	(NA)			

Footnotes continued on next page.

Footnotes for Table 1-36D

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3651	1,507,543	(NA)	3672	155,458	(NA)
3652	138,629	84,656	3673	249,744	(NA)
3662	2,251,807	(NA)	3679	1,417,283	(NA)
3671	369,366	(NA)			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>For 1958, a number of small establishments (under 20 employees) may have been misclassified in industry 3661, Telephone and Telegraph, because of insufficient product information. Although this has a significant effect on the number of establishments for this industry it has virtually no effect on any of the other statistics, i.e., number of employees, salaries and wages, value added, etc. It is estimated that the effect on these principal statistics is less than 1 percent.

<sup>10</sup>Cost of materials and value of shipments for Industry 3661 are omitted because of extensive duplication. The specialization ratio and coverage ratio for this industry are estimated at about 90 percent. See text for a more detailed explanation.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3651, Radio and television receiving sets.....	234	144	66,505	593,953	r xxx	r xxx	r xxx	r xxx
Old Industry 3661, Radios and related products.....	234	144	66,505	593,953	r <sub>2</sub> 023	r <sub>1</sub> 066	r <sub>305</sub> 108	r <sub>2</sub> 592,100
New Industry 3662, Radio and television transmitting, signaling and detection equipment and apparatus.....	512	260	129,515	1,297,583	r xxx	r xxx	r xxx	r xxx
Old Industry 3661, Radios and related products.....	318	211	118,575	1,199,758	r <sub>2</sub> 023	r <sub>1</sub> 066	r <sub>305</sub> 108	r <sub>2</sub> 592,100
Old Industry 3669, Communication equipment, nec.....	178	43	10,387	92,112	186	47	10,757	94,415
All other industries <sup>1</sup> .....	16	6	553	5,713	xxx	xxx	xxx	xxx
New Industry 3671, Radio and television receiving type electron tubes, except cathode ray.....	85	41	36,968	285,799	r xxx	r xxx	r xxx	r xxx
Old Industry 3662, Electron tubes.....	85	41	36,968	285,799	r <sub>282</sub>	r <sub>169</sub>	r <sub>92</sub> 939	r <sub>740</sub> 651
New Industry 3672, Cathode ray picture tubes.....	75	30	8,554	67,472	r xxx	r xxx	r xxx	r xxx
Old Industry 3662, Electron tubes.....	75	30	8,554	67,472	r <sub>282</sub>	r <sub>169</sub>	r <sub>92</sub> 939	r <sub>740</sub> 651
New Industry 3673, Transmitting, industrial, and special purpose electron tubes.....	48	44	20,146	165,803	r xxx	r xxx	r xxx	r xxx
Old Industry 3662, Electron tubes.....	48	44	20,146	165,803	r <sub>282</sub>	r <sub>169</sub>	r <sub>92</sub> 939	r <sub>740</sub> 651
New Industry 3679, Electronic components and accessories, nec.....	1,479	737	132,242	914,811	r xxx	r xxx	r xxx	r xxx
Old Industry 3661, Radios and related products.....	1,414	684	105,018	693,823	r <sub>2</sub> 023	r <sub>1</sub> 066	r <sub>305</sub> 108	r <sub>2</sub> 592,100
Old Industry 3662, Electron tubes.....	65	53	27,224	220,988	r <sub>282</sub>	r <sub>169</sub>	r <sub>92</sub> 939	r <sub>740</sub> 651

<sup>1</sup>These data are for a miscellaneous group of establishments that were classified in the industry because of shifts in their product classifications to conform to the New SIC and classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>r</sup>Revised.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3651	Radio and TV receiving sets, total.....	234	144	66,505	292,664	52,047	100,487	196,565	593,953	1,548,006	11,308	(3)	(3)	(3)
	Northeast.....	98	59	22,446	101,762	16,361	31,739	63,000	191,692	532,829	2,859	(3)	(3)	(3)
	New York.....	63	38	10,809	52,642	8,102	15,845	32,749	110,876	279,840	1,171	(3)	(3)	(3)
	New Jersey...	16	9	5,266	22,420	3,557	6,759	13,698	33,430	110,603	700	(3)	(3)	(3)
	East North Central.....	78	56	36,616	160,514	30,090	57,858	114,553	340,766	866,818	7,466	(3)	(3)	(3)
	Illinois.....	47	33	21,314	94,970	17,508	33,825	66,757	206,764	539,369	(D)	(3)	(3)	(3)
	West North Central.....	10	7	1,510	5,494	1,224	2,378	3,852	8,593	26,090	(2)	(3)	(3)	(3)
	South and West..	48	22	5,933	24,894	4,372	8,512	15,160	52,902	122,269	911	(3)	(3)	(3)
3652	Phonograph records, total.....	94	53	7,421	33,381	5,858	12,158	23,739	93,073	148,731	4,011	6,152	57,387	10,045
	Northeast.....	45	30	4,302	19,173	3,403	7,144	13,736	47,116	82,102	1,741	(2)	(3)	(3)
	New York.....	16	7	681	2,972	561	1,159	2,183	3,286	8,178	(2)	(3)	(3)	(3)
	New Jersey...	15	12	1,466	6,524	1,196	2,406	4,831	16,756	25,526	1,018	669	5,801	2,052
	East North Central.....	11	7	1,709	7,828	1,368	2,753	5,472	33,110	45,521	1,684	(D)	(4)	(4)
	Illinois.....	4	2	195	647	164	326	504	890	2,006	(D)	(4)	(4)	(4)
	South and West..	38	16	1,410	6,380	1,087	2,261	4,531	12,847	21,108	586	980	7,904	1,399
	California...	32	15	1,370	6,244	1,053	2,211	4,456	12,455	20,521	545	(4)	(4)	(4)
3661	Telephone; telegraph apparatus, total.....	95	55	85,544	460,499	55,547	107,833	275,071	740,855	(5)	103,517	64,663	497,829	76,072
	New England.....	8	5	6,857	31,817	4,870	9,427	20,250	62,372	(5)	9,422	5,226	52,517	(D)
	Middle Atlantic.	29	15	21,361	116,284	13,136	25,597	67,493	162,994	(5)	7,813	16,881	130,206	(D)
	North Central...	36	26	50,334	274,539	32,428	63,020	163,228	451,767	(5)	79,713	38,993	285,144	(D)
	South.....	9	5	4,977	25,644	3,923	7,465	18,466	43,970	(5)	5,470	2,592	22,289	(D)
	Pacific.....	13	4	2,015	12,215	1,190	2,324	5,634	19,752	(5)	1,099	970	7,671	(D)
	California...	13	4	2,015	12,215	1,190	2,324	5,634	19,752	(5)	1,099	970	7,671	192
3662	Radio, TV communication equipment, total.....	512	260	129,515	743,399	78,137	157,118	377,246	1,297,583	2,414,620	43,935	(3)	(3)	(3)
	New England.....	65	45	13,200	69,222	8,742	19,096	40,497	134,578	218,784	2,704	(3)	(3)	(3)
	New Hampshire	6	5	1,558	6,939	1,333	3,048	5,682	7,537	15,451	(2)	(3)	(3)	(3)
	Middle Atlantic.	161	84	53,708	329,987	32,053	62,704	163,821	580,945	1,038,538	16,459	(3)	(3)	(3)
	North Central...	114	47	23,990	116,982	13,874	27,716	58,450	220,192	426,660	9,303	(3)	(3)	(3)
	Missouri.....	8	4	587	2,766	278	540	965	4,430	7,666	(2)	(3)	(3)	(3)
	South.....	59	31	19,788	111,951	10,805	21,745	48,695	189,374	418,358	6,170	(3)	(3)	(3)
	Texas.....	8	3	3,277	18,667	1,648	3,457	7,160	23,516	51,307	1,911	(3)	(3)	(3)
	West.....	113	53	18,829	115,257	12,663	25,857	65,783	172,494	276,280	9,299	(3)	(3)	(3)
	California...	95	48	16,953	103,750	11,207	22,755	57,411	154,343	251,461	8,810	(3)	(3)	(3)
3671	Electron tubes, receiving type, total.....	85	41	36,968	149,540	30,931	57,271	110,707	285,799	382,526	11,514	(3)	(3)	(3)
	Northeast.....	49	27	24,593	104,403	20,156	38,346	74,743	175,396	250,325	9,211	(3)	(3)	(3)
	New York.....	13	6	1,911	8,325	1,421	2,770	5,481	12,037	16,859	(2)	(3)	(3)	(3)
	Pennsylvania.	11	9	8,296	34,704	7,025	13,371	26,818	67,053	96,747	4,962	(3)	(3)	(3)
	North Central...	17	6	6,238	21,815	5,572	9,650	18,435	57,384	69,631	1,086	(3)	(3)	(3)
	South and West..	19	8	6,137	23,322	5,203	9,275	17,529	53,019	62,570	1,217	(3)	(3)	(3)
3672	Cathode ray picture tubes, total.....	75	30	8,554	38,092	6,955	14,183	27,570	67,472	159,252	1,406	(3)	(3)	(3)
	New England.....	4	...	42	179	37	77	152	366	488	(D)	(3)	(3)	(3)
	Middle Atlantic.	29	15	3,473	16,444	2,769	5,921	11,710	26,054	59,756	(D)	(3)	(3)	(3)
	New York.....	10	7	2,091	9,908	1,626	3,368	6,638	16,736	37,895	(2)	(3)	(3)	(3)
	North Central...	19	10	4,638	19,786	3,826	7,522	14,421	37,162	92,769	656	(3)	(3)	(3)
	South.....	11	3	172	542	144	275	413	1,458	2,151	(2)	(3)	(3)	(3)
	Mountain.....	3	...	7	19	7	11	19	40	72	...	(3)	(3)	(3)
	Pacific.....	9	2	222	1,122	172	377	855	2,392	4,016	(2)	(3)	(3)	(3)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3673	Electron tubes, transmitting, total	48	44	20,146	102,150	14,475	29,472	65,134	165,803	258,474	9,021	(3)	(3)	(3)
	Northeast.....	28	25	14,332	68,742	10,560	21,461	45,400	114,836	181,275	4,442	(3)	(3)	(3)
	New York.....	4	4	1,885	9,783	1,430	2,855	6,485	16,057	31,197	554	(3)	(3)	(3)
	New Jersey....	15	12	2,408	10,149	1,712	3,377	6,885	17,070	28,308	892	(3)	(3)	(3)
	North Central....	5	5	577	2,832	376	712	1,720	2,969	6,565	(2)	(3)	(3)	(3)
	South and West...	15	14	5,237	30,576	3,539	7,299	18,014	47,998	70,634	4,513	(3)	(3)	(3)
	California....	10	10	4,302	25,912	2,792	5,720	14,576	32,239	58,591	3,571	(3)	(3)	(3)
3679	Electronic components, nec, total.....	1,479	737	132,242	564,021	102,881	201,387	367,326	914,811	1,445,684	50,306	(3)	(3)	(3)
	New England.....	186	102	25,851	101,101	20,972	40,944	70,610	157,686	237,193	8,021	(3)	(3)	(3)
	Rhode Island..	8	3	374	1,011	315	572	750	2,000	3,088	(2)	(3)	(3)	(3)
	Middle Atlantic..	499	256	44,224	199,214	33,430	65,584	124,809	315,362	500,663	20,290	(3)	(3)	(3)
	New York.....	250	123	17,356	80,604	12,874	25,910	49,820	133,979	213,033	5,538	(3)	(3)	(3)
	New Jersey....	159	76	12,041	52,948	9,134	17,671	32,226	72,883	125,235	6,136	(3)	(3)	(3)
	Pennsylvania..	90	57	14,827	65,662	11,422	22,003	42,763	108,500	162,395	8,616	(3)	(3)	(3)
	East North Central.....	303	181	29,574	119,079	23,713	46,231	81,680	194,895	345,976	6,315	(3)	(3)	(3)
	Illinois.....	164	107	15,586	59,780	12,508	24,347	40,858	98,805	168,774	3,117	(3)	(3)	(3)
	Michigan.....	26	8	2,235	10,279	1,753	3,645	7,048	22,917	52,088	(2)	(3)	(3)	(3)
	Wisconsin.....	28	18	2,403	8,763	1,932	3,373	6,600	13,905	21,742	(2)	(3)	(3)	(3)
	West North Central.....	69	37	5,631	20,039	4,373	8,488	13,002	37,697	60,786	1,109	(3)	(3)	(3)
	South.....	109	50	10,509	38,497	8,750	17,541	27,348	81,728	117,348	3,944	(3)	(3)	(3)
	North Carolina	11	10	2,714	7,310	2,416	4,633	6,017	15,666	25,551	(2)	(3)	(3)	(3)
	Tennessee.....	8	4	300	1,416	257	408	541	1,745	3,082	(2)	(3)	(3)	(3)
	West.....	313	111	16,453	86,091	11,643	22,599	49,877	127,443	183,721	10,627	(3)	(3)	(3)
	Colorado.....	6	1	121	345	93	175	204	401	579	(2)	(3)	(3)	(3)
	California....	277	103	15,162	80,214	10,757	20,947	46,332	120,917	172,763	9,701	(3)	(3)	(3)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3651, Radio and TV Receiving Sets: Northeast—Maine, 1 (100-249); New Hampshire, 2 (250-499); Massachusetts, 9 (1,000-2,499); Connecticut, 4 (100-249); Middle Atlantic—Pennsylvania, 3 (4,424); East North Central—Ohio, 9 (2,500-4,999); Indiana, 10 (9,772); Michigan, 10 (1,000-2,499); Wisconsin, 2 (250-499); West North Central—Minnesota, 6 (500-999); Iowa, 3 (500-999); Kansas, 1 (1-19); South and West—Maryland, 2 (20-99); District of Columbia, 2 (1-19); North Carolina, 1 (20-99); Florida, 1 (1-19); Kentucky, 1 (250-499); Tennessee, 1 (1,000-2,499); Oklahoma, 2 (500-999); Texas, 5 (250-499); Colorado, 1 (1-19); Arizona, 1 (1-19); Oregon, 1 (1-19); California, 30 (2,500-4,999).

SIC 3652, Phonograph Records: Northeast—New Hampshire, 1 (20-99); Massachusetts, 2 (20-99); Connecticut, 3 (1,000-2,499); Pennsylvania, 8 (500-999); East North Central—Ohio, 2 (20-99); Indiana, 3 (1,411); Michigan, 2 (20-99); South and West—Florida, 1 (1-19); Tennessee, 1 (20-99); Texas, 1 (1-19); Arizona, 1 (1-19); Nevada, 1 (1-19); Washington, 1 (1-19).

SIC 3661, Telephone; Telegraph Apparatus: New England—New Hampshire, 1 (1-19); Massachusetts, 3 (6,491); Connecticut, 4 (250-499); Middle Atlantic—New York, 14 (4,858); New Jersey, 14 (16,502); Pennsylvania, 1 (1-19); North Central—Ohio, 4 (2,022); Indiana, 3 (5,000 and over); Illinois, 21 (39,986); Wisconsin, 1 (1-19); Minnesota, 1 (250-499); Iowa, 1 (1-19); Missouri, 3 (20-99); Nebraska, 2 (1,000-2,499); South—Maryland, 2 (2,500-4,999); Florida, 1 (1-19); Kentucky, 2 (1-19); Tennessee, 1 (250-499); Mississippi, 1 (100-249); Arkansas, 1 (250-499); Oklahoma, 1 (100-249).

SIC 3662, Radio, TV Communication Goods: New England—Massachusetts, 37 (9,210); Rhode Island, 1 (20-99); Connecticut, 21 (2,412); Middle Atlantic—New York, 91 (29,987); New Jersey, 43 (19,041); Pennsylvania, 27 (5,000 and over); North Central—Ohio, 24 (2,081); Indiana, 6 (2,216); Illinois, 41 (12,789); Michigan, 18 (500-999); Wisconsin, 2 (20-99); Minnesota, 3 (100-249); Iowa, 4 (5,076); South Dakota, 1 (1-19); Nebraska, 5 (20-99); Kansas, 2 (1-19); South—Delaware, 1 (1-19); Maryland, 14 (5,000 and over); Virginia, 4 (500-999); West Virginia, 1 (1-19); North Carolina, 5 (5,080); South Carolina, 1 (250-499); Georgia, 1 (1-19); Florida, 14 (1,000-2,499); Kentucky, 2 (20-99); Tennessee, 2 (1-19); Arkansas, 1 (1-19); Louisiana, 2 (20-99); Oklahoma, 3 (1-19); West—Colorado, 2 (1-19); New Mexico, 1 (20-99); Arizona, 4 (1,518); Nevada, 1 (100-249); Pacific—Washington, 7 (20-99); Oregon, 3 (20-99).

SIC 3671, Electron Tubes, Receiving Type: Northeast—Massachusetts, 11 (5,757); Connecticut, 4 (20-99); New Jersey, 10 (8,553); North Central—Ohio, 5 (1,918); Indiana, 2 (2,500-4,999); Illinois, 6 (100-249); Michigan, 2 (1-19); Minnesota, 1 (1-19); Iowa, 1 (500-999); South and West—Maryland, 1 (1-19); South Carolina, 1 (1-19); Kentucky, 1 (2,500-4,999); Alabama, 1 (1,000-2,499); Oklahoma, 2 (500-999); Texas, 1 (1-19); Arizona, 1 (20-99); California, 11 (250-499).

SIC 3672, Cathode Ray Picture Tubes: New England—New Hampshire, 1 (1-19); Massachusetts, 2 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 11 (1,091); Pennsylvania, 8 (250-499); North Central—Ohio, 5 (1,064); Indiana, 1 (1,000-2,499); Illinois, 6 (1,257); Michigan, 3 (20-99); Missouri, 2 (20-99); Kansas, 2 (20-99); South—Georgia, 1 (1-19); Florida, 3 (20-99); Kentucky, 1 (20-99); Tennessee, 2 (1-19); Louisiana, 2 (20-99); Texas, 2 (20-99); Mountain—New Mexico, 1 (1-19); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 1 (1-19); California, 8 (100-249).

SIC 3673, Electron Tubes, Transmitting: Northeast—Massachusetts, 4 (5,000 and over); Connecticut, 1 (500-999); Pennsylvania, 4 (3,667); North Central—Illinois, 4 (250-499); Minnesota, 1 (250-499); South and West—Florida, 1 (250-499); Kentucky, 1 (1-19); Texas, 1 (20-99); Utah, 2 (250-499).

SIC 3679, Electronic Components, NEC: New England—Maine, 3 (250-499); New Hampshire, 10 (2,500-4,999); Vermont, 4 (250-499); Massachusetts, 116 (18,094); Connecticut, 45 (3,562); East North Central—Ohio, 45 (4,642); Indiana, 40 (4,708); West North Central—Minnesota, 22 (1,000-2,499); Iowa, 16 (1,000-2,499); Missouri, 14 (1,000-2,499); Nebraska, 11 (1,343); Kansas, 6 (500-999); South—Maryland, 13 (250-499); District of Columbia, 3 (20-99); Virginia, 8 (500-999); West Virginia, 2 (250-499); South Carolina, 3 (500-999); Georgia, 2 (20-99); Florida, 17 (500-999); Kentucky, 1 (20-99); Alabama, 5 (500-999); Mississippi, 2 (250-499); Arkansas, 2 (20-99); Oklahoma, 6 (20-99); Texas, 26 (3,344); West—Montana, 1 (1-19); New Mexico, 3 (100-249); Arizona, 10 (500-999); Utah, 1 (20-99); Nevada, 1 (1-19); Washington, 7 (20-99); Oregon, 7 (100-249).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

<sup>4</sup>This state was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such states. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>5</sup>Omitted because of extensive duplication. See text for further explanation.



Table 3.—Detailed Statistics for the United States: 1958

Item	Radio and TV receiving sets (SIC 3651)	Phonograph records (SIC 3652)	Telephone and telegraph apparatus (SIC 3661)	Radio, TV communication equipment (SIC 3662)	Electron tubes receiving type (SIC 3671)	Cathode ray picture tubes (SIC 3672)	Electron tubes transmitting (SIC 3673)	Electronic components, nec (SIC 3679)
Primary product specialization ratio <sup>1</sup> .....	91	97	( <sup>3</sup> )	83	89	96	83	88
Coverage ratio <sup>2</sup> .....	90	98	( <sup>3</sup> )	81	96	84	81	82
Number of establishments, total.....	234	94	95	512	85	75	48	1,479
With 1-19 employees.....	90	41	40	252	44	45	4	742
With 20-99 employees.....	52	38	13	120	16	21	19	450
With 100 employees or more.....	92	15	42	140	25	9	25	287
Proprietors and working partners.....Number..	43	24	22	107	14	4	1	352
All employees:								
Number (average for the year).....	66,505	7,421	85,544	129,515	36,968	8,554	20,146	132,242
Payroll.....\$1,000..	292,664	33,381	460,499	743,399	149,540	38,092	102,150	564,021
Production workers:								
Number (average for the year).....	52,047	5,858	55,547	78,137	30,931	6,955	14,475	102,881
March.....	45,135	5,888	59,744	76,277	32,415	7,274	14,563	95,338
May.....	44,120	5,642	54,950	76,181	30,872	6,536	14,317	94,375
August.....	56,785	5,826	53,080	77,915	30,271	7,010	14,306	105,255
November.....	62,203	6,133	54,415	82,202	30,152	7,029	14,734	116,503
Man-hours.....1,000..	100,487	12,158	107,833	157,118	57,271	14,183	29,472	201,387
January-March.....do....	23,060	3,069	30,121	38,139	15,632	3,732	7,391	46,036
April-June.....do....	21,562	2,807	27,208	38,378	14,137	3,560	7,479	46,650
July-September.....do....	25,782	2,930	22,812	36,274	13,151	3,291	6,772	49,348
October-December.....do....	30,014	3,328	27,692	44,279	14,319	3,582	7,820	59,353
Wages.....\$1,000..	196,565	23,739	275,071	377,246	110,707	27,570	65,134	367,326
Cost of materials, etc., total.....do....	936,314	58,704	( <sup>3</sup> )	1,098,351	92,260	91,972	90,669	548,973
Materials, parts, containers, and supplies consumed.....do....	894,137	47,385	( <sup>3</sup> )	960,621	73,442	86,200	73,346	497,179
Cost of resales.....do....	32,635	8,886	21,137	113,564	11,682	2,958	6,225	23,498
Fuels consumed.....do....	1,616	743	3,495	3,088	854	777	868	3,821
Electricity purchased.....do....	3,169	799	3,443	6,220	2,466	1,550	2,641	9,250
Contract work.....do....	4,757	891	13,390	14,858	3,816	487	7,589	15,225
Value of shipments (including resales), total.....do....	1,548,006	148,731	( <sup>3</sup> )	2,414,620	382,526	159,752	258,474	1,445,684
Value of resales.....do....	40,463	10,102	24,510	162,813	13,160	3,794	8,730	28,401
Value added by manufacture, adjusted...do....	593,953	93,073	740,855	1,297,583	285,799	67,472	165,803	914,811
Manufacturers' inventories:								
Beginning of year, total.....do....	247,740	16,973	316,104	508,565	50,640	18,144	64,154	234,717
Finished products.....do....	107,402	9,048	13,051	71,738	28,674	11,287	19,192	47,408
Work-in-process.....do....	54,952	2,886	247,440	305,715	10,339	1,522	25,393	93,247
Materials, supplies, fuel, etc.....do....	85,386	5,039	55,613	131,112	11,627	5,335	19,569	94,062
End of year, total.....do....	225,931	20,336	288,902	471,305	44,619	17,456	59,883	256,244
Finished products.....do....	91,403	11,805	15,235	64,329	24,054	11,361	20,813	50,219
Work-in-process.....do....	53,212	3,175	230,900	294,438	10,492	1,640	21,770	108,536
Materials, supplies, fuel, etc.....do....	81,316	5,356	42,767	112,538	10,073	4,455	17,300	97,489
Expenditures for plant and equipment, total.....do....	12,219	4,674	115,96	740	11,694	1,547	12,509	52,120
New, total.....do....	11,308	4,011	103,517	43,935	11,514	1,406	9,021	50,306
New structures and additions to plant.....do....	4,317	1,221	51,012	16,660	3,485	274	2,622	11,272
New machinery and equipment.....do....	6,991	2,790	52,505	27,275	8,029	1,132	6,399	39,034
Used plant and equipment.....do....	911	663	12,444	1,805	180	141	3,488	1,814

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>Revised.

<sup>2</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>3</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>4</sup>Omitted because of extensive duplication. The specialization ratio and coverage ratio are estimated at about 90 percent. See text for further explanation.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3651	Radio and TV receiving sets:											
	Number of establishments.....	234	38	27	25	27	25	34	21	17	17	3
	All employees:											
	Number.....	66,505	81	188	366	894	1,808	5,391	7,379	12,283	25,709	12,406
	Payroll.....\$1,000..	292,664	332	749	1,688	3,997	8,203	20,915	29,456	50,408	114,752	62,164
	Value added, adjusted..do....	593,953	718	1,497	2,898	6,594	13,565	32,266	68,170	86,452	260,565	121,228
	Value of shipments.....do....	1,548,006	1,293	3,370	6,556	15,723	30,425	82,989	144,861	291,933	678,908	291,948
	Capital expend., new...do....	11,308	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	903	1,243	2,253	3,886	1,701
3652	Phonograph records:											
	Number of establishments.....	94	22	8	11	26	12	8	4	1	2	...
	All employees:											
	Number.....	7,421	47	52	145	747	797	1,140	1,460	3,033	(D)	...
	Payroll.....\$1,000..	33,381	151	180	686	3,137	3,628	4,953	6,485	14,161	(D)	...
	Value added, adjusted..do....	93,073	451	642	1,492	4,979	5,720	18,014	14,697	47,078	(D)	...
	Value of shipments.....do....	148,731	1,058	1,818	2,644	9,783	10,096	24,320	23,159	75,853	(D)	...
	Capital expend., new...do....	4,011	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	533	( <sup>1</sup> )	1,461	819	583	(D)	...
3661	Telephone and telegraph apparatus <sup>2</sup> :											
	Number of establishments.....	95	26	10	4	6	7	10	10	6	8	8
	All employees:											
	Number.....	85,544	51	69	47	200	464	1,871	3,635	4,371	74,836	(D)
	Payroll.....\$1,000..	460,499	229	308	162	924	2,209	8,998	17,140	22,258	408,271	(D)
	Value added, adjusted..do....	740,855	536	564	252	2,011	4,713	12,584	32,421	40,415	647,359	(D)
	Capital expend., new...do....	103,517	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3662	Radio, TV communication equipment:											
	Number of establishments.....	512	119	69	64	75	45	55	32	22	18	13
	All employees:											
	Number.....	129,515	247	460	911	2,286	3,275	9,032	11,806	15,446	30,652	55,400
	Payroll.....\$1,000..	743,399	930	2,088	4,141	11,600	15,867	51,398	60,203	83,368	172,546	341,258
	Value added, adjusted..do....	1,297,583	2,143	3,638	7,630	18,606	24,981	80,322	94,159	149,409	284,936	631,759
	Value of shipments.....do....	2,414,620	3,943	6,413	14,202	34,955	42,079	134,285	162,208	250,854	607,993	1,157,688
	Capital expend., new...do....	43,935	735	550	600	991	1,257	2,987	4,093	5,947	6,823	19,952
3671	Electron tubes, receiving type:											
	Number of establishments.....	85	22	10	12	10	6	...	2	7	14	2
	All employees:											
	Number.....	36,968	50	64	168	285	421	...	35,980	(D)	(D)	(D)
	Payroll.....\$1,000..	149,540	190	247	710	1,094	1,405	...	145,894	(D)	(D)	(D)
	Value added, adjusted..do....	285,799	517	478	1,365	1,898	3,165	...	278,376	(D)	(D)	(D)
	Value of shipments.....do....	382,526	650	760	1,730	3,087	4,461	...	371,838	(D)	(D)	(D)
	Capital expend., new...do....	11,514	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	...	10,734	(D)	(D)	(D)
3672	Cathode ray picture tubes:											
	Number of establishments.....	75	11	18	16	11	10	1	3	2	3	...
	All employees:											
	Number.....	8,554	26	119	217	344	897	(D)	1,353	5,598	(D)	...
	Payroll.....\$1,000..	38,092	89	457	849	1,379	3,898	(D)	6,752	24,668	(D)	...
	Value added, adjusted..do....	67,472	143	672	908	3,286	8,675	(D)	11,870	41,918	(D)	...
	Value of shipments.....do....	159,252	249	1,132	1,928	4,823	14,879	(D)	30,196	106,045	(D)	...
	Capital expend., new...do....	1,406	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	...
3673	Electron tubes, transmitting:											
	Number of establishments.....	48	2	1	1	12	7	7	6	6	4	2
	All employees:											
	Number.....	20,146	466	(D)	(D)	(D)	565	1,035	2,204	4,727	11,149	(D)
	Payroll.....\$1,000..	102,150	2,027	(D)	(D)	(D)	2,632	5,253	11,001	23,338	57,899	(D)
	Value added, adjusted..do....	165,803	3,648	(D)	(D)	(D)	4,640	9,372	21,898	32,780	93,465	(D)
	Value of shipments.....do....	258,474	5,440	(D)	(D)	(D)	7,119	10,487	35,891	57,317	142,220	(D)
	Capital expend., new...do....	9,021	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	636	2,610	910	1,419	3,280	(D)
3679	Electronic components, nec:											
	Number of establishments.....	1,479	362	186	194	256	194	156	80	31	17	3
	All employees:											
	Number.....	132,242	756	1,225	2,749	8,217	13,836	24,382	27,853	20,528	23,872	8,824
	Payroll.....\$1,000..	564,021	2,875	4,855	11,946	32,437	57,054	99,512	115,898	88,073	109,312	42,059
	Value added, adjusted..do....	914,811	5,910	7,653	20,511	54,731	93,608	158,370	196,959	121,655	173,639	81,775
	Value of shipments.....do....	1,445,684	12,698	14,793	35,771	90,576	151,876	262,798	308,259	195,377	263,256	110,280
	Capital expend., new...do....	50,306	1,114	1,236	2,181	5,778	3,940	7,965	5,881	5,909	10,288	6,014

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.

<sup>2</sup>Value of shipments for industry 3661 have been omitted because of extensive duplication. See text for explanation.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3651	Radio and TV receiving sets....1958..	1,548,006	1,364,275	129,669	54,062	91	1,516,238	1,364,275	151,963	90
3652	Phonograph records.....1958..	148,731	133,016	4,236	11,479	97	136,165	133,016	3,149	98
	1954..	92,546	77,935	5,132	9,479	94	80,224	77,935	2,289	97
3661	Telephone; telegraph apparatus..1958..	( <sup>3</sup> )	( <sup>3</sup> )	78,443	53,439	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	1954..	( <sup>3</sup> )	( <sup>3</sup> )	51,988	16,561	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3662	Radio, TV communication equip...1958..	2,414,620	1,606,993	322,211	485,416	83	1,991,462	1,606,993	384,469	81
3671	Electron tubes, receiving type..1958..	382,526	323,502	38,492	20,532	89	337,274	323,502	13,772	96
3672	Cathode ray picture tubes.....1958..	159,252	149,535	5,710	4,007	96	177,251	149,535	27,716	84
3673	Electron tubes, transmitting....1958..	258,474	181,055	37,954	39,465	83	224,899	181,055	43,844	81
3679	Electronic components, nec.....1958..	1,445,684	1,211,740	170,198	63,746	88	1,481,208	1,211,740	269,468	82

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Omitted because of extensive duplication in value of shipments. See text for more detailed explanation.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries.)

Prod. class code	Radios and TV receiving sets industry	Radios and TV receiving sets (SIC 3651)	Other industries	All industries
	Total shipments of the industry.....	1,548,006	xxx	xxx
	Primary products.....	1,364,275	151,963	1,516,238
36511	Household and automobile radios, and radio-phonograph combinations.....	493,652	<sup>1</sup> 55,574	549,226
36512	Household television receivers, including television combinations.....	686,249	<sup>2</sup> 40,346	726,595
36513	Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.....	183,929	<sup>3</sup> 55,845	239,774
36510	Radios and TV receiving sets, nsk.....	445	198	643
	Secondary products.....	129,669	xxx	xxx
36112	Equipment for testing electrical, radio, and communication circuits, and motors.....	8,149	xxx	xxx
36621	Commercial, industrial, and military electronic communication equipment.....	15,859	xxx	xxx
36625	Electronic search and detection apparatus.....	3,083	xxx	xxx
36794	Coils, transformers, reactors, and chokes for electronic applications.....	5,427	xxx	xxx
36795	Other electronic components and accessories.....	28,041	xxx	xxx
	Other secondary products.....	<sup>4</sup> 69,110	xxx	xxx
	Miscellaneous receipts.....	54,062	xxx	xxx
	Contract and commission work.....	2,877	xxx	xxx
	Sales of products bought and resold without further manufacture.....	40,463	xxx	xxx
	Other.....	10,722	xxx	xxx
Prod. class code	Phonograph records industry	Phonograph records (SIC 3652)	Other industries	All industries
	Total shipments of the industry.....	148,731	xxx	xxx
36520	Phonograph records.....	133,016	<sup>5</sup> 3,149	136,165
	Secondary products.....	4,236	xxx	xxx
27821	Blankbook making.....	3,180	xxx	xxx
	Other secondary products.....	1,056	xxx	xxx
	Miscellaneous receipts.....	11,479	xxx	xxx
	Sales of scrap and refuse.....	965	xxx	xxx
	Sales of products bought and resold without further manufacture.....	10,102	xxx	xxx
	Other.....	412	xxx	xxx
Prod. class code	Telephone; telegraph apparatus industry	Telephone; telegraph apparatus (SIC 3661)	Other industries	All industries
	Total shipments of the industry.....	( <sup>6</sup> )	xxx	xxx
	Primary products.....	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
36611	Telephone switching and switchboard equipment.....	7427,633	( <sup>7</sup> )	427,633
36612	Other telephone and telegraph (wire) apparatus, equipment, and components.....	694,560	9,715	704,275
36610	Telephone and telegraph apparatus, nsk.....	3,827	3,143	6,970
	Secondary products.....	78,443	xxx	xxx
36621	Commercial, industrial, and military electronic communication equipment.....	17,774	xxx	xxx
36795	Other electronic components and accessories, nec.....	1,364	xxx	xxx
	Other secondary products.....	<sup>8</sup> 59,305	xxx	xxx
	Miscellaneous receipts.....	53,439	xxx	xxx
	Contract and commission work.....	657	xxx	xxx
	Sales of products bought and resold without further manufacture.....	24,510	xxx	xxx
	Other.....	28,272	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Radio, TV communication equipment industry	Radio, TV communication equipment (SIC 3662)	Other industries	All industries
	Total shipments of the industry.....	2,414,600	xxx	xxx
	Primary products.....	1,606,993	304,469	1,991,462
3661	Radio and television commercial communication equipment.....	322,453	976,439	398,892
3662	Radio and television broadcast equipment and closed circuit systems.....	44,924	109,071	53,995
3663	Intercommunication equipment.....	107,439	1122,347	129,786
3664	Electronic navigational aids.....	191,713	1211,449	203,162
3665	Electronic aircraft and missile control, guidance and check-out systems.....	704,332	13213,524	217,856
3666	Other commercial, industrial, and military electronic equipment, nec.....	236,132	1451,639	227,771
	Secondary products.....	322,211	xxx	xxx
36712	Computing and accounting machines.....	20,874	xxx	xxx
36711	Test equipment for testing electrical, radio, and communication circuits and motors.....	16,551	xxx	xxx
36711	Household radios, phonographs, and radio-phonographs.....	41,051	xxx	xxx
3681	Recorders, audio amplifiers, tuners, speaker systems, and other audio equipment and accessories...	9,470	xxx	xxx
3682	Other electronic components, including parts for electron tubes, nec.....	36,087	xxx	xxx
3683	Other aircraft assemblies, parts, and auxiliary equipment.....	14,412	xxx	xxx
36811	Aircraft flight instruments and automatic pilots.....	10,472	xxx	xxx
	Other secondary products.....	15173,294	xxx	xxx
	Miscellaneous receipts.....	485,416	xxx	xxx
	Sales of scrap and refuse and miscellaneous repair work.....	317,190	xxx	xxx
	Sales of products bought and resold without further manufacture.....	162,813	xxx	xxx
	Contract and commission work.....	5,413	xxx	xxx
	Other.....			
Prod. class code	Electron tubes, receiving type, industry	Electron tubes, receiving type (SIC 3671)	Other industries	All industries
	Total shipments of the industry.....	382,526	xxx	xxx
3671	Electron tubes, receiving type.....	323,502	1613,772	337,274
	Secondary products.....	1738,492	xxx	xxx
	Miscellaneous receipts.....	20,532	xxx	xxx
	Contract and commission work.....	2,898	xxx	xxx
	Sales of scrap and refuse and miscellaneous repair work.....	4,474	xxx	xxx
	Sales of products bought and resold without further manufacture.....	13,160	xxx	xxx
Prod. class code	Cathode ray picture tubes industry	Cathode ray picture tubes (SIC 3672)	Other industries	All industries
	Total shipments of the industry.....	159,252	xxx	xxx
3672	Cathode ray picture tubes.....	149,535	1827,716	177,251
	Secondary products.....	195,710	xxx	xxx
	Miscellaneous receipts.....	4,007	xxx	xxx
	Sales of scrap and refuse and miscellaneous repair work.....	213	xxx	xxx
	Sales of products bought and resold without further manufacture.....	3,794	xxx	xxx
Prod. class code	Electron tubes, transmitting, industry	Electron tubes, transmitting (SIC 3673)	Other industries	All industries
	Total shipments of the industry.....	258,474	xxx	xxx
3673	Transmitting, industrial, and special purpose electron tubes (except X-ray).....	181,055	2043,844	224,899
36712	Secondary products.....	37,954	xxx	xxx
	Test equipment for testing electrical, radio and communication circuits and motors.....	2,630	xxx	xxx
	Other secondary products.....	2135,324	xxx	xxx
	Miscellaneous receipts.....	39,465	xxx	xxx
	Sales of scrap and refuse and miscellaneous repair work.....	30,648	xxx	xxx
	Sales of products bought and resold without further manufacture.....	8,817	xxx	xxx
	Other.....			

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Electronic components, nec, industry	Electronic components, nec (SIC 3679)	Other industries	All industries
	Total shipments of the industry.....	1,445,684	xxx	xxx
	Primary products.....	1,211,740	269,468	1,481,208
36791	Solid state semiconductor devices.....	216,169	<sup>22</sup> 20,533	236,702
36792	Capacitors for electronic applications.....	174,744	<sup>23</sup> 8,818	183,562
36793	Resistors for electronic applications.....	117,139	<sup>24</sup> 29,649	146,788
36794	Coils, transformers, reactors, and chokes for electronic applications.....	167,996	<sup>25</sup> 37,360	205,356
36795	Other electronic components and accessories, nec.....	450,467	<sup>26</sup> 168,112	618,579
36790	Electronic components and accessories, nsk.....	85,225	<sup>27</sup> 4,996	90,221
	Secondary products.....	170,198	xxx	xxx
36112	Equipment for testing electrical, radio, and communication circuits and motors.....	5,186	xxx	xxx
36220	General industry power circuit devices and controls.....	3,879	xxx	xxx
36291	Capacitors for industrial use (except for electronic applications).....	11,835	xxx	xxx
36292	Rectifying apparatus.....	2,464	xxx	xxx
36513	Recorders, audio amplifiers, tuners, speaker systems, and other audio equipment and accessories...	23,057	xxx	xxx
36621	Commercial, industrial, and military electronic communication equipment, except broadcast equipment and home-type intercommunication equipment.....	4,978	xxx	xxx
36622	Radio and television broadcast equipment, and closed circuit systems.....	2,477	xxx	xxx
38111	Aircraft engine instruments, except flight.....	3,397	xxx	xxx
	Other secondary products.....	<sup>28</sup> 112,925	xxx	xxx
	Miscellaneous receipts.....	63,746	xxx	xxx
	Contract and commission work.....	10,864	xxx	xxx
	Sales of scrap and refuse and miscellaneous repair work.....	22,974	xxx	xxx
	Sales of products bought and resold without further manufacture.....	28,401	xxx	xxx
	Other.....	1,507	xxx	xxx

<sup>1</sup>Includes \$41,051 thousand shipped by Industry 3662, Radio, TV Communication Equipment.

<sup>2</sup>Of this figure for household television receivers, over \$2 million were shipped by the following industries: 3662, Radio and TV Communications Equipment; and 3611, Electrical Measuring Instruments.

<sup>3</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$3,134 by Industry 3611, Electrical Measuring Instruments; \$9,470 by Industry 3662, Radio, TV Communication Equipment; and \$23,057 by Industry 3679, Electronic Components, NEC.

<sup>4</sup>Of this figure, \$2 million or more of the following product classes were shipped: 35851, Heat transfer equipment; 36612, Other telephone and telegraph (wire) apparatus, equipment, and components; 36622, Radio and television broadcast equipment, and closed circuit systems; 36624, Electronic navigational aids; 36791, Other electronic components and accessories; 37175, Parts and accessories for passenger cars, trucks, and busses shipped to motor vehicle manufacturers; 37291, Other aircraft parts and auxiliary equipment; 38424, Electrical hearing aids; and 39312, Organs.

<sup>5</sup>Includes \$1,913 thousand shipped by Industry 3579, Office Machines, NEC.

<sup>6</sup>Omitted because of extensive amount of duplication. See text for more detailed explanation.

<sup>7</sup>Value of telephone switching and switchboard equipment shipped by establishments classified in other industries (less than 1 percent) is included with shipments by the Telephone and Telegraph Apparatus Industry to avoid disclosure of operations of individual companies.

<sup>8</sup>Includes the following product classes which total \$2 million or more: 33512, Rolled, drawn, and extruded copper and copper-base alloy mill products; 33560, Rolled, drawn, and extruded nonferrous mill products, except copper and aluminum; 35595, Other special industry machinery and equipment; 36112, Test equipment for testing electrical, radio, and communication circuits and motors; 36220, Industrial controls; 36430, Current carrying wiring devices; and 36623, Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.

<sup>9</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$9,470 by Industry 3611, Electric Measuring Instruments; \$15,859 by Industry 3651, Radios and TV Receiving Sets; and \$17,774 by Industry 3661, Telephone; Telegraph Apparatus.

<sup>10</sup>Includes \$2,477 thousand shipped by Industry 3679, Electronic Components, NEC.

<sup>11</sup>Of this amount, \$2 million or more was shipped by the following industries: 3644, Noncurrent Carrying Wiring Devices; 3661, Telephone; Telegraph Apparatus; and 3729, Aircraft Equipment, NEC.

<sup>12</sup>Of this amount, \$2 million or more was shipped by the following industries: 3651, Radio and TV Receiving Sets; and 3811, Scientific Instruments.

<sup>13</sup>Includes \$106,993 thousand shipped by Major Group 19, Ordnance and Accessories; \$3,083 thousand by Industry 3651, Radio and TV Receiving Sets; and \$2,372 thousand by Industry 3679, Electronic Components and Accessories, NEC.

<sup>14</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$27,336 by Major Group 19, Ordnance and Accessories; \$5,519 by Industry 3679, Electronic Components, NEC; \$2,700 by Industry 3611, Electric Measuring Instruments; and \$3,104 by Industry 3811, Scientific Instruments.

<sup>15</sup>Of this amount, \$2 million or more of the following product classes were shipped: 35319, Other construction machinery and equipment; 35662, Speed changers; 36312, Household television receivers and television combinations; 36791, Solid state semiconductor devices; 36794, Coils, transformers, etc.; 36992, Lamp bulb components; 37292, Guided missile components and subassemblies, nec; 37294, Receipts from research and development on missile components, nec; 38310, Optical instruments and lenses; 38613, Motion picture equipment; and 39312, Organs. In addition, over \$2 million of Major Group 19 products, Ordnance and Accessories, was shipped.

<sup>16</sup>Of this amount over \$2 million was shipped by Industry 3679, Electronic Components and Accessories, NEC.

<sup>17</sup>Includes shipments of \$2 million or more of the following product classes: 36720, cathode ray picture tubes; 36730, Transmitting, industrial, and special purpose electron tubes; and 36795, Other electronic components and accessories, nec.

<sup>18</sup>Of this figure for cathode ray picture tubes, \$2 million or more was shipped by the following industries: 3671, Electron Tubes, Receiving Type; and 3673, Electron Tubes, Transmitting.

<sup>19</sup>Includes shipment of over \$2 million of product class 36795, Other electronic components and accessories, nec.

<sup>20</sup>Includes \$2 million or more shipped by the following industries: 3679, Electronic Components and Accessories, NEC; 3611, Electric Measuring Instruments; 3621, Motors and Generators; and 3671, Electron Tubes, Receiving Type. In addition, over \$2 million was shipped by establishments classified in Major Group 19, Ordnance and Accessories.

<sup>21</sup>Includes shipments of \$2 million or more of the following product classes: 36134, Fuses and fuse equipment under 2,300 volts; 36626, Electronic military, industrial, and commercial equipment; 36720, Cathode ray picture tubes; 36795, Other electronic components and accessories, and 36930, X-ray equip.

<sup>22</sup>Includes shipments of \$2 million or more by the following industries: 3531, Construction Machinery; 3629, Electric Industrial Goods, NEC; 3651, Radio and TV Receiving Sets; 3662, Radio, TV Communication Goods; and 3822, Automatic Temperature Controls.

<sup>23</sup>Includes \$5,261 thousand shipped by Industry 3629, Electrical Industrial Goods, NEC.

<sup>24</sup>Includes shipment of over \$2 million by Industry 3622, Industrial Controls.

<sup>25</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$11,485 by Industry 3612, Transformers; \$5,427 by Industry 3651, Radios and TV Receiving Sets; and \$2,853 by Industry 3662, Radio, TV Communication Equipment. In addition, over \$2 million was shipped by establishments classified in Major Group 19, Ordnance and Accessories.

<sup>26</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$4,062 by Industry 3611, Electric Measuring Instruments; \$7,385 by Industry 3621, Motors and Generators; \$8,523 by Industry 3643, Current Carrying Wiring; \$28,041 by Industry 3651, Radios and TV Receiving Sets; \$56,087 by Industry 3662, Radio, TV Communication Equipment; \$3,398 by Industry 3811, Scientific Instruments; and \$2,530 by Industry 3821, Mechanical Measuring Devices. In addition, shipments of \$2 million or more were made by the following industries: 2641, Paper Coating and Glazing; 3517, Steel Pipe and Tubes; 3571, Computing and Related Machines; 3671, Electron Tubes, Receiving Type; 3672, Cathode Ray Picture Tubes; and 3673, Electron Tubes, Transmitting. Finally, over \$2 million was shipped by establishments classified in Major Group 19, Ordnance and Accessories.

<sup>27</sup>Includes shipments of \$2,690 thousand by Industry 3662, Radio, TV Communication Equipment.

<sup>28</sup>Includes shipments of \$2 million or more of the following product classes: 30793, Molded plastic products, nec; 32640, Porcelain electrical supplies; 34491, Ornamental and structural metal work; 34492, Prefabricated and portable metal buildings and parts; 35595, Other special industry machinery and equipment; 36511, Household and automobile radios, radio-phonograph combinations; 36625, Electronic search and detection apparatus; 36626, Electronic military, industrial, and commercial equipment, nec; 36710, Receiving type electron tubes, except cathode ray; 36730, Transmitting industrial and special purpose electron tubes (except X-ray); and 36992, Lamp bulb components.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3651--	Radio and television receiving sets, total.....	xxx	1,516,238	xxx	( <sup>1</sup> )
3651110	Home-type radio receivers; automobile radios; radio-phonograph combinations, phonographs, and record players, as reported in Census of Manufactures.....	xxx	<sup>2</sup> 549,226	xxx	363,568
	Household radio receivers and radio-phonographs (complete sets), phonographs and record players (except radio-TV and radio-phono-TV combinations) as reported on Census Form MA-36M, total <sup>2</sup> .	xxx	<sup>2</sup> 547,996	xxx	(NA)
	Home-type radio receivers:				
	Socket powered:				
	Table models, except clock:				
	AM.....	2,336	31,031	2,842	41,395
	AM-FM and FM only.....	251	8,582	<sup>3</sup> 124	<sup>3</sup> 4,159
	Clock models (AM and AM-FM).....	2,076	37,942	1,862	37,419
	Console models (AM and AM-FM).....	...	...	<sup>3</sup> 6	<sup>3</sup> 608
	Battery powered table and console models.....	7	181	445	4767
	Portable radio receivers:				
	3-way (A.C., D.C., and battery).....	766	17,271	1,233	26,127
	Transistor.....	2,438	63,101	336	5,655
	Other portable radio receivers.....	138	1,966		
	Home-type radio-phonograph combinations, complete sets (including sets with built-in recorders, but excluding TV sets):				
	Table models, including portable sets, AM and AM-FM.....	403	22,358	296	14,895
	Console models:				
	AM.....	203	22,311	28	2,696
	AM-FM.....	181	37,153	53	7,507
	Automobile radios (broadcast receivers only).....	3,935	101,766	4,306	111,415
	Phonographs:				
	Mechanical acoustical reproduction phonographs (with spring or electric motor).....	434	3,731	698	7,761
	Electronic phonographs (with speaker):				
	Coin operated.....	52	37,152	63	39,530
	Non-coin operated.....	3,264	148,600	1,898	50,799
	Record player attachments (including record players with automatic record changing devices):				
	Complete with case (plug-in or induction types only).....	387	9,664	427	7,823
	For installation in combination sets and custom built sets.....	228	5,187	241	4,161
3651220	Home-type television sets and other complete television receivers as reported in the Census of Manufactures.....	xxx	726,595	xxx	(NA)
	TV receivers including radio-TV and radio-phono-TV combinations (complete sets) as reported on Census Form MA-36M, total <sup>2</sup> .....	xxx	<sup>2</sup> 691,242	xxx	(NA)
	Table models, including portable sets (with or without conventional radio).....	3,079	336,087	3,803	464,873
	Console and consolette models (with or without conventional radio).....	2,124	338,806	3,112	526,147
	Radio-phonograph-TV combination models.....	78	16,349	127	29,421
	Industrial TV receiving sets.....	(NA)	(NA)	xxx	551
	Other TV receivers.....	(NA)	(NA)		
36513--	Recorders, audio amplifiers, tuners, speaker systems, and other audio equipment and accessories.....	xxx	239,774	xxx	(NA)
3651331	Recorders, tape, wire, and disc, sold separately (except radio-phonograph combinations, office recording machines, and recorder mechanisms sold separately).....	xxx	44,834	293	27,110
3651351	Loudspeakers, speaker systems (sold separately) and horns....	xxx	63,714	xxx	45,546
3651355	Microphones (all types).....	1,551	11,763	1,123	7,073
3651362	Amplifiers, audio, complete units, and preamplifiers, audio, household type (sold separately).....	504	34,663	xxx	(NA)
3651365	Tuners, AM, FM, AM-FM and tuner-amplifier combinations.....	51	3,712	xxx	( <sup>3</sup> )
3651366	Tuners, TV.....	3,913	34,721	6,239	68,392
3651367	Home-type electronic kits to be assembled by consumer for radio receivers, tuners, amplifiers, and other audio equipment.....	xxx	13,326	xxx	( <sup>3</sup> )
3651371	Chassis for home-type radio receivers for sale separately as reported in the Census of Manufactures.....	xxx	1,311	xxx	3,771
	Chassis for home-type radio receivers for sale separately as reported on Census Form MA-36M <sup>2</sup> .....	<sup>2</sup> 29	<sup>2</sup> 1,358	xxx	(NA)
	Sold to radio and TV manufacturers.....	10	459	56	1,112
	Sold to others.....	19	899	51	2,659

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers						
		1958			1954			
		Quantity (1,000 units)	Value (\$1,000)		Quantity (1,000 units)	Value (\$1,000)		
3651---	Radio and television, etc.--Continued							
	Recorders, audio amplifiers, etc.--Continued							
3651387	Chassis for home-type television receivers for sale separately.....	xxx	4,702		xxx	4,255		
	Chassis for home-type television receivers for sale separately as reported on Census Form MA-36M, total <sup>2</sup> .....	238	22,916		xxx	(NA)		
	Sold to radio and TV manufacturers.....	8	405		28	3,375		
	Sold to others.....	30	2,511		19	880		
3651391	Other commercial sound equipment, except broadcast (includes complete public address systems, slide film projection audio units, music distribution apparatus, etc., but excludes components).....	xxx	19,064		xxx	13,860		
3651300	Recorders, amplifiers, audio equipment, etc., nsk.....	xxx	7,964		xxx	3,002		
3651000	Radio and television receiving sets, nsk.....	xxx	643		xxx	(NA)		
		Unit of measure	1958		1954			
			Total produc- tion (quantity)	Total shipments including inter- plant transfers		Total produc- tion (quantity)	Total shipments including inter- plant transfers	
		Quantity		Value (\$1,000)			Quantity	Value (\$1,000)
3652	Phonograph records.....	.....	xxx	xxx	136,165	xxx	xxx	80,224
	Disc records (except electrical transcriptions):							
3652012	78 r.p.m. for own label.....	1,000.....	6,781	6,695	1,068	129,370	127,628	24,768
3652014	78 r.p.m. on contract basis for others.....	..do.....	xxx	16,631	2,002			
3652022	45 r.p.m. for own label.....	..do.....	82,835	70,629	19,509	78,694	76,219	20,997
3652024	45 r.p.m. on contract basis for others.....	..do.....	xxx	114,478	13,382			
3652032	33 1/3 r.p.m. for own label.....	..do.....	71,259	59,900	70,972	25,843	23,989	21,913
3652034	33 1/3 r.p.m. on contract basis for others.....	..do.....	xxx	42,741	15,709			
3652061	Other speeds, including electrical transcriptions of all speeds..	..do.....	16,018	16,892	5,433	46,877	46,827	43,689
3652081	Prerecorded tapes.....	1,000 reels.	375	339	1,285	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
3652091	Disc type and other record blanks.....	.....	xxx	xxx	4,196	xxx	xxx	2,778
3652000	Phonograph records, nsk.....	.....	xxx	xxx	2,609	xxx	xxx	456,079
		Total shipments including interplant transfers						
		1958			1954			
		Quantity (number of units)	Value (\$1,000)		Quantity (number of units)	Value (\$1,000)		
3661---	Telephone and telegraph apparatus.....	xxx	( <sup>6</sup> )		xxx	( <sup>6</sup> )		
36611--	Telephone switching and switchboard equipment.....	xxx	427,633		xxx	245,159		
3661111	Telephone switchboards (central office and PBX subscriber A and B, trunk and toll).....	xxx	62,459		xxx	55,108		
3661151	Telephone switching equipment (central office and PBX dial systems).....	xxx	365,174		xxx	190,051		
36612--	Other telephone and telegraph (wire) apparatus, equipment, and components.....	xxx	704,275		xxx	508,744		
3661211	Telephone carrier equipment and repeater equipment (includes open-wire and cable transmission).....	xxx	140,298		xxx	86,814		
3661231	Telephone instrument sets (transmitters and receivers with or without dial, for subscriber use only).....	6,933,767	101,725		4,394,000	74,485		
3661261	Other telephone apparatus and equipment, including components.	xxx	370,164		xxx	293,127		
3661271	Telegraph (wire) apparatus and equipment (including military), including components.....	xxx	92,088		xxx	54,318		
3661000	Telephone and telegraph apparatus, nsk.....	xxx	6,970		xxx	1,566		

See footnotes at end of table.



## COMMUNICATION EQUIPMENT AND ELECTRON COMPONENTS AND ACCESSORIES 36D-19

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3662—	Radio and television transmitting, signaling, and detection equipment and apparatus.....	xxx	1,991,462	xxx	(7)
36621—	Commercial, industrial, and military electronic communication equipment, except broadcast equipment and home-type intercommunication equipment.....	xxx	398,892	xxx	xxx
	Transmitters and radio frequency power amplifiers:				
3662112	Airborne.....	xxx	21,081	xxx	(8)
3662113	Fixed station.....	xxx	19,773		
3662114	Land mobile.....	xxx	13,563		
3662115	Marine (shipboard).....	xxx	3,406	xxx	9,933
3662116	Microwave.....	xxx	10,536	xxx	(8)
3662118	Other.....	xxx	10,950	xxx	886,514
	Receivers:				
3662122	Airborne.....	xxx	16,009	xxx	(9)
3662123	Fixed, land mobile and portable.....	xxx	13,255		
3662124	Marine (shipboard).....	xxx	668	xxx	9,308
3662125	Microwave.....	xxx	4,077	xxx	(9)
3662128	Other.....	xxx	6,058	xxx	948,408
	Two-way radio, including transceivers:				
3662151	Base stations.....	xxx	37,442	xxx	(10)
3662152	Airborne.....	xxx	81,543	xxx	109,164
3662153	Land mobile.....	xxx	68,482	xxx	10135,665
3662154	Portable.....	xxx	10,211		
3662155	Marine (shipboard).....	xxx	5,939		
3662158	Other.....	xxx	12,208		
3662181	Microwave telephone (communication) equipment.....	xxx	16,326	xxx	(NA)
3662185	Mobile telephone (communication) equipment.....	xxx	635	xxx	(NA)
3662198	Other communications equipment (except broadcast equipment and home-type intercommunication equipment).....	xxx	42,078	xxx	(11)
3662100	Commercial, industrial and military electronic communication equipment, nsk.....	xxx	4,652	xxx	117,355
36622—	Radio and television broadcast equipment, and closed circuit systems.....	xxx	53,995	xxx	xxx
	Transmitters:				
3662211	AM and FM.....	xxx	5,156	xxx	4,986
3662221	TV.....	xxx	6,792	xxx	20,938
3662231	Other AM, FM, and TV broadcast equipment (includes antennas except receiving types; studio TV cameras; audio and video broadcast equipment, monitoring and related equipment; exclude studio lighting equipment, radiating and supporting towers, STL and remote relay links and closed circuit TV and cameras).....	xxx	19,841	xxx	53,078
3662241	Industrial (closed circuit) television, including cameras....	xxx	7,710	xxx	
3662291	Radio amateur electronic kits to be assembled by consumers (including transmitters, commercial receivers, Conelrad devices, and VFO kits).....	xxx	7,485	xxx	(NA)
3662200	Radio and television broadcast equipment and closed circuit systems, nsk.....	xxx	7,011	xxx	(NA)
36623—	Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....	xxx	129,786	xxx	xxx
3662311	Intercommunication equipment (except intercommunication equipment designed primarily for use in telephone and telegraph networks).....	xxx	26,164	xxx	19,212
	Railway signals and attachments, electric:				
3662321	Railroad highway grade crossing signals (exclusive of relays and other control apparatus).....	xxx	3,419	xxx	39,502
3662329	Other railway signal systems and safety control equipment..	xxx	37,721	xxx	(NA)
	Electric and electronic alarm and signal systems and devices, other than railway:				
3662341	Electric street traffic signals.....	xxx	12,496	xxx	8,318
3662345	Commercial central station protective signaling equipment..	xxx	11,402	xxx	(NA)
3662349	Other.....	xxx	32,621	xxx	43,476
3662340	Electric and electronic alarm and signal systems and devices, nsk.....	xxx	719	xxx	(NA)
3662300	Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices, nsk.....	xxx	5,244	xxx	(NA)
36624—	Electronic navigational aids.....	xxx	203,162	xxx	xxx
3662411	Electronic navigational aids (includes GCA, ILS, Loran, Tacan, etc.).....	xxx	202,452	xxx	(12)
3662400	Electronic navigational aids, nsk.....	xxx	710	xxx	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3662---	Radio and television transmitting, etc.—Continued				
36625---	Electronic search and detection apparatus, including radar, infrared, and sonar.....	xxx	917,856	xxx	xxx
3662511	Electronic search and detection apparatus, including radar, infrared, etc. (excluding sonar).....	xxx	872,303	xxx	<sup>12</sup> 854,639
3662551	Sonar.....	xxx	44,618	xxx	34,891
3662500	Electronic search and detection apparatus, including radar, infrared and sonar, nsk.....	xxx	935	xxx	( <sup>12</sup> )
36626---	Electronic military, industrial, and commercial equipment, nec...	xxx	287,771	xxx	xxx
3662621	Ultrasonic equipment.....	xxx	43,040	xxx	
3662631	Telemetering equipment.....	xxx	50,367	xxx	
3662651	Other, including electronic meteorological equipment and systems (ray-wind, radiosonde, etc.); facsimile equipment (except telegraph); etc.....	xxx	185,094	xxx	<sup>12</sup> 136,141
3662661	Magnetic amplifiers.....	xxx	6,085	xxx	(NA)
3662600	Electronic military industrial and commercial equipment, nsk..	xxx	3,185	xxx	( <sup>12</sup> )
3671---	Radio and television receiving type electron tubes, except cathode ray.....	xxx	337,274	xxx	288,821
	Glass:				
3671011	Standard, GT, and GT/G.....	115,138	88,919	<sup>13</sup> 125,481	<sup>13</sup> 87,540
3671012	Miniature.....	288,167	211,080	233,613	149,125
3671013	Subminiature.....	4,275	12,292	48,112	26,581
3671018	Other glass, including lock-in, and metal.....	14,074	14,726	<sup>13</sup> 25,582	<sup>13</sup> 25,575
3671051					
3671000	Other radio and television receiving type electron tubes, nsk.	xxx	10,257	...	...
3672---	Cathode ray picture tubes.....	xxx	177,251	xxx	212,968
3672011	TV picture tubes, including rebuilt.....	9,671	177,251	10,565	212,968
3673---	Transmitting, industrial, and special purpose electron tubes.....	xxx	224,899	xxx	156,111
36730---	Transmitting, industrial, and special purpose electron tubes (except X-ray):				
3673012	High vacuum tubes (nonreceiving types):				
	Rectifiers.....	<sup>r</sup> 3,572	17,849	642	4,731
3673013	Triodes and multigrid:				
	External anode.....	<sup>r</sup> 591	22,451	370	15,949
	Internal anode:				
3673015	Plate dissipation (100 watts and under).....	<sup>r</sup> 1,574	8,240	2,923	15,759
3673017	Plate dissipation (over 100 watts).....	<sup>r</sup> 208	6,008	93	2,920
3673021	Gas or vapor tubes (include pool tubes):				
3673023	Rectifiers (except tungar and rectigon types).....	2,085	7,531	1,502	4,049
3673025	Grid control types, ignitor, etc. (except hydrogen thyratrons).....	<sup>r</sup> 444	6,330	921	9,839
3673027	Thyratrons (hydrogen).....	<sup>r</sup> 190	5,654	339	10,349
3673032	Klystrons.....	<sup>r</sup> 170	27,926	xxx	( <sup>14</sup> )
3673041	Velocity modulated tubes (except Klystron and magnetron).....	...	...	121	8,650
3673051	Gaps, T/R and anti-T/R tubes.....	<sup>r</sup> 250	10,296	257	6,332
3673061	Magnetrons.....	<sup>r</sup> 109	50,626	122	49,691
3673098	Cathode ray tubes (includes oscilloscopes, camera pick-up tubes, monoscopes, storage tubes, iconoscopes, and orthicons) excludes TV picture tubes.....	271	22,724	221	16,159
3679---	Miscellaneous type transmitting, industrial and special purpose tubes (includes ballast, photo, photo multiplier, vacuum capacitor, vacuum switch, vacuum relay, vacuum gauge, battery charger rectifying tubes, traveling wave, backward wave oscillators, etc.).....	xxx	39,264	xxx	<sup>14</sup> 11,683
36791---	Electronic components and accessories, nec.....	xxx	1,481,208	xxx	( <sup>15</sup> )
3679111	Solid state semiconductor devices.....	xxx	236,702	<sup>r</sup> 16,053	<sup>r</sup> 22,602
	Semiconductor diodes (including rectifiers):				
3679111	Selenium diodes and stacks:				
	2" x 2" square and below.....	12,070	13,293		
3679115	Above 2" x 2" square.....	940	10,931		
3679121	Silicon diodes and stacks:				
	Point contact type.....	10,586	19,424		
3679125	Junction type.....	11,320	33,830		
3679141	Germanium diodes and stacks:				
	Point contact type.....	14,631	7,038	<sup>r</sup> 16,053	<sup>r</sup> 22,602
3679145	Junction type (including gold bonded).....	20,803	18,603		
3679161	Transistors:				
	Silicon type.....	3,787	38,909		
3679165	Germanium type.....	47,185	86,806		
3679198	All other solid state semiconductor devices (includes copper oxide, copper sulphide, infrared, solar cells, other light sensitive, etc.).....	xxx	7,868		

See footnotes at end of table.



## COMMUNICATION EQUIPMENT AND ELECTRON COMPONENTS AND ACCESSORIES 36D-21

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3679---	Electronic components, etc.—Continued				
36792--	Capacitors for electronic applications.....	xxx	183,562	xxx	178,157
	Capacitors, fixed (except capacitors for power-factor correction and capacitors for fluorescent tube ballasts):				
3679211	Paper capacitors, including metalized paper.....	250,255	46,975	443,083	67,235
	Electrolytic capacitors:				
3679221	Aluminum.....	68,140	35,299	75,658	39,392
3679231	Tantalum.....	6,004	15,354		
3679241	Ceramic capacitors.....	581,580	26,681	560,347	27,015
3679251	Mica capacitors.....	140,586	14,788	105,431	13,359
3679261	Other, including film, glass, etc.....	xxx	19,047	79,499	10,785
3679281	Variable tuning condensers (capacitors).....	xxx	11,443	8,797	10,442
3679285	Variable trimming condensers (capacitors) and condenser (capacitors) accessories.....	xxx	4,526	xxx	5,089
3679287	Permeability tuning devices.....	xxx	9,449	xxx	4,840
36793--	Resistors for electronic applications.....	xxx	146,788	xxx	94,785
	Composition resistors:				
3679311	Fixed.....	1,617,442	38,733	1,419,416	30,669
3679315	Variable, including rheostats and potentiometers.....	116,272	31,168	111,270	25,325
	Wire-wound resistors:				
3679331	Fixed, including precision.....	49,171	21,259	xxx	28,529
3679335	Variable: Precision potentiometers (1% or less deviation from standard curve).....	xxx	26,831	xxx	
3679337	Semiprecision and nonprecision (more than 1% deviation from standard curve).....	xxx	5,495	xxx	
3679351	Film resistors, fixed (borocarbon, deposited carbon, and metal film).....	45,258	11,430	xxx	10,262
3679355	Other (including adjustable resistors, attenuators, varistors, thermistors, tape resistors, etc.).....	xxx	11,872		
36794--	Coils, transformers, reactors, and chokes for electronic applications.....	xxx	205,356	xxx	180,223
3679411	RF and IF coils, transformers, and chokes.....	216,570	46,724	261,083	96,097
	Transformers and reactors for electronic applications, except RF and IF:				
3679431	Audio.....	xxx	35,615	xxx	(16)
3679441	Power (all types).....	xxx	67,463	xxx	34,183
3679461	Pulse.....	xxx	11,717	xxx	(16)
3679471	TV (horizontal output, vertical deflection, focus coils, deflection yokes, etc.).....	xxx	30,843	xxx	(16)
3679498	Other (include toroidal, focusing solenoids, etc.).....	xxx	12,994	xxx	1649,943
36795--	Other electronic components and accessories, nec, including parts for electron tubes (except glass blanks).....	xxx	618,579	xxx	440,521
	Electron tube parts, except glass blanks, sold separately for:				
3679513	TV picture tubes.....	...	8,931	xxx	29,112
3679515	Radio and receiving type electron tubes (except cathode ray).....	...	36,890	xxx	
3679519	Other electron tubes (except X-ray).....	...	6,522	xxx	
3679531	Tube sockets.....	291,027	14,523	xxx	15,182
3679532	Switches, coaxial, tap, rotary wafer, slide selector and similar types.....	xxx	20,308	xxx	20,741
3679536	Antennas, receiving, radio, and TV (home, portable and automotive, except communication whip type).....	9,644	66,141	22,914	72,257
3679539	TV boosters and converters (including UHF and color).....	140	2,309	17486	177,584
3679546	Phonograph cartridges and pick-ups.....	xxx	21,253	5,453	11,850
3679547	Phonograph needles and cutting styli.....	xxx	10,931	xxx	5,813
3679548	Recorder mechanisms only, tape, wire and disc (sold separately without built-in speakers, amplifiers, etc.)....	...	(18)	xxx	7,605
3679549	Vibrators for radio power supplies (for automobile, marine, etc. installations).....	5,264	5,876	...	...
3679552	Printed circuit boards, cables, and forms already etched, plated, etc., ready for component insertion.....	xxx	15,569	xxx	3,101

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
	Electronic components, etc.—Continued				
	Other electronic components, etc.—Continued				
3679554	Complex components (including modules, printed electronic circuits, filters, pulse networks, coupling circuits, and other component combinations for electronic applications sold as a single unit).....	xxx	31,164	xxx	(19)
3679557	Recording magnetic tape and wire.....	xxx	33,907	xxx	9,098
3679565	Specialized ferrite components for electronic applications (include ferrite tape recorder heads, microwave attenuators and isolators, UHF waveguide modulators, rotators, etc.)....	xxx	13,477	xxx	(19)
3679591	Hermetic seals, for electronic applications.....	xxx	18,941	xxx	(19)
	Quartz crystals:				
3679592	Mounted.....	3,115	9,358	xxx	(19)
3679593	Unmounted.....	1,023	1,161	xxx	(19)
3679594	Relays for electronic applications.....	3,054	12,099	xxx	(19)
3679595	Power supplies (include regulated, transistorized, and electronic vibrator types) for electronic applications.....	xxx	24,496	xxx	(19)
3679596	Waveguides and waveguide fittings.....	xxx	22,699	xxx	(19)
3679598	Other electronic components and accessories, such as chassis blanks, dial assemblies, quartz crystal blanks, piezo electric crystals (except quartz), delay lines, crystal holders, transducers, insulators, phonomotor assemblies, antenna rotators, etc.....	xxx	18,95,941	xxx	17,19,238,222
3679500	Other electronic components and accessories, nec , nsk.....	xxx	46,083	xxx	19,956
3679000	Electronic components and accessories, nec , nsk.....	xxx	90,221	xxx	21,757

Revised.

<sup>1</sup>No comparable 1954 industry total is available, since the present Industry 3651 in 1954 was part of Industry 3661, Radios and Related Products, under the old Standard Industrial Classification, and sufficient product details are not available to accumulate to a comparable total. See table 1A.

<sup>2</sup>For these products, figures for 1958 are from the current annual survey M36M, "Home-type radio receivers and television sets, automobile radios, phonographs, and record player attachments." The 1954 product detail was collected as part of the 1954 Census of Manufactures.

<sup>3</sup>For 1954, included in new product code 3651391.

<sup>4</sup>In 1954 electrical transcriptions included only 33<sup>1</sup>/<sub>3</sub> r.p.m.; and undetermined quantity and value of the other speeds were included in code 3663100.

<sup>5</sup>In 1954 prerecorded tapes were included in new product code 3652000.

<sup>6</sup>Omitted because of extensive amount of duplication in value of shipments. See text for more detailed explanation.

<sup>7</sup>No comparable 1954 industry total is available, since the present Industry 3662 is comprised of part of 1954 Industry 3661, Radios and Related Products, and part of 1954 Industry 3669, Communication Equipment, nec. See table 1A.

<sup>8</sup>Included with "Other transmitters" in 1954.

<sup>9</sup>Included with "Other receivers" in 1954.

<sup>10</sup>Included with "Other transceivers" in 1954.

<sup>11</sup>Included with "Commercial, industrial and military electronic communication equipment, nsk," old product code 3661400.

<sup>12</sup>In 1954 and undetermined amount of electronic navigational aids, and electronic search and detection apparatus were included in old product class 36617.

<sup>13</sup>In 1954 data for lock-in glass receiving type tubes included with standard GT and GT/G tubes.

<sup>14</sup>For 1954, included with data for old product code 3662498, miscellaneous type transmitting industrial and special purpose tubes.

<sup>15</sup>No comparable 1954 industry total is available, since the present Industry 3679 in 1954 was part of the following two industries: Industry 3661, Radios and Related Products, and Industry 3662, Electron Tubes, and sufficient product details are not available to accumulate to a comparable total. See Table 1A.

<sup>16</sup>In 1954, included with "other transformers."

<sup>17</sup>In 1954 "Boosters" were included with "Other electronic components and accessories," old product code 3661598, present code 3679598.

<sup>18</sup>In 1958 included with code 3679598.

<sup>19</sup>In 1954, included with "other electronic components and accessories," old Code 3661598, present Code 3679598.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments.  
by Divisions and States for 1958

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Household and automobile radios and radio phonograph combinations (36511):</u>		<u>Commercial, industrial, and military electronic communication equipment (36621)—Continued</u>		<u>Electronic search and detection apparatus, including radar, infrared and sonar (36625):</u>	
United States, total.....	549,226	Middle Atlantic.....	168,978	United States, total.....	917,856
Northeast.....	175,181	New York.....	76,417	New England.....	143,649
New York.....	91,080	New Jersey.....	72,881	Massachusetts.....	132,997
New Jersey.....	35,335	Pennsylvania.....	19,680	Middle Atlantic.....	347,856
North Central.....	313,065	North Central.....	132,525	New York.....	207,433
Indiana.....	55,613	Ohio.....	8,887	East North Central.....	70,620
Illinois.....	172,930	Illinois.....	74,404	Ohio.....	35,990
<u>Household television receivers, including television combinations (36512):</u>		South.....	55,733	Indiana.....	7,159
United States, total.....	726,594	Maryland.....	17,763	Illinois.....	25,483
Middle Atlantic.....	263,205	North Carolina.....	9,189	West North Central.....	3,594
New York.....	129,427	West.....	22,215	South Atlantic.....	230,993
All other divisions.....	463,390	California.....	21,174	Florida.....	2,295
Illinois.....	282,701	<u>Radio and TV broadcast equipment and closed circuit systems (36622):</u>		All other divisions.....	121,244
<u>Recorders, audio amplifiers, phonographs, tuners, and speaker systems (36513):</u>		United States, total.....	53,995	California.....	84,831
United States, total.....	239,774	New England.....	1,715	<u>Electronic military, industrial, and commercial equipment, nec (36626):</u>	
Northeast.....	75,270	Massachusetts.....	1,089	United States, total.....	287,771
Massachusetts.....	8,926	Middle Atlantic.....	28,214	Northeast.....	175,760
Connecticut.....	1,140	New Jersey.....	18,253	Massachusetts.....	5,471
New York.....	35,986	East North Central.....	10,537	New Jersey.....	18,436
New Jersey.....	22,175	Illinois.....	4,371	Pennsylvania.....	11,739
North Central.....	139,068	West North Central.....	3,282	North Central.....	27,041
Ohio.....	10,118	South Atlantic.....	2,226	Ohio.....	3,173
Illinois.....	79,186	All other divisions.....	8,021	Indiana.....	2,701
Michigan.....	28,238	California.....	6,551	All other divisions.....	86,638
Wisconsin.....	6,258	<u>Intercommunication equipment and electric alarm and signal systems and devices (36623):</u>		Maryland.....	8,369
South.....	8,731	United States, total.....	129,786	Florida.....	29,903
Maryland.....	1,163	Northeast.....	87,921	California.....	44,090
West.....	16,705	Massachusetts.....	7,144	<u>Transmitting, industrial and special purpose electron tubes (36730):</u>	
<u>Telephone switching and switchboard equipment (36611):</u>		Connecticut.....	11,045	United States, total.....	224,899
United States, total.....	427,633	New York.....	42,504	New England.....	64,917
Illinois.....	279,610	East North Central.....	31,862	Middle Atlantic.....	100,451
<u>Other telephone and telegraph apparatus equipment and components (36612):</u>		Ohio.....	4,154	New York.....	20,120
United States, total.....	704,275	Illinois.....	21,425	New Jersey.....	40,592
Northeast.....	287,769	West North Central.....	3,406	Pennsylvania.....	39,739
Massachusetts.....	119,083	Missouri.....	1,290	East North Central.....	4,327
New York.....	12,969	South Atlantic.....	2,736	All other divisions.....	55,204
New Jersey.....	154,927	South Central.....	1,406	California.....	42,122
East North Central.....	323,371	West.....	2,457	<u>Solid state semiconductor devices (36791):</u>	
Illinois.....	210,836	California.....	2,279	United States, total.....	232,523
West North Central.....	6,623	<u>Electronic navigational aids (36624):</u>		New England.....	54,461
Minnesota.....	1,430	United States, total.....	203,162	Massachusetts.....	50,823
All other divisions.....	86,512	Northeast.....	119,193	Middle Atlantic.....	85,791
California.....	20,397	Massachusetts.....	7,171	New York.....	34,850
<u>Commercial, industrial, and military electronic communication equipment (36621):</u>		New Jersey.....	49,885	New Jersey.....	22,825
United States, total.....	398,892	North Central.....	26,672	Pennsylvania.....	28,116
New England.....	19,001	All other divisions.....	57,297	North Central.....	13,204
Connecticut.....	3,252	Maryland.....	8,297	All other divisions.....	83,208
See footnotes at end of table.				California.....	32,461

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments,  
by Divisions and States for 1958—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Capacitors for electronic applica- tions (36792):</u>		<u>Coils, transformers, reactors, and chokes, for electronic applications (36794):</u>		<u>Other electronic components, and accessories, nec, including parts for electron tubes (except glass blanks) (36795):</u>	
United States, total.....	183,562	United States, total.....	205,356	United States, total.....	618,579
New England.....	56,040	New England.....	22,620	New England.....	63,850
Massachusetts.....	35,791	Massachusetts.....	19,010	New Hampshire.....	7,238
Connecticut.....	10,446	Middle Atlantic.....	52,923	Massachusetts.....	28,754
Middle Atlantic.....	33,970	New York.....	33,579	Connecticut.....	24,795
New York.....	11,428	New Jersey.....	10,416	Middle Atlantic.....	219,696
New Jersey.....	12,590	Pennsylvania.....	8,928	New York.....	85,356
Pennsylvania.....	9,952	East North Central.....	78,596	New Jersey.....	72,592
North Central.....	42,207	Ohio.....	18,180	Pennsylvania.....	61,748
Indiana.....	11,027	Indiana.....	9,597	East North Central.....	174,109
Illinois.....	23,971	Illinois.....	43,027	Ohio.....	41,548
Wisconsin.....	4,583	Michigan.....	5,151	Indiana.....	16,268
All other divisions.....	44,978	Wisconsin.....	2,641	Illinois.....	77,920
North Carolina.....	14,053	West North Central.....	10,762	Michigan.....	31,359
South Carolina.....	8,900	Missouri.....	4,408	Wisconsin.....	7,004
California.....	9,329	South Atlantic.....	17,417	West North Central.....	45,195
<u>Resistors for electronic applications (36793):</u>		East South Central.....	1,103	Minnesota.....	30,968
United States, total.....	146,788	West South Central.....	1,404	Iowa.....	7,212
New England.....	14,790	Texas.....	1,404	Missouri.....	4,801
Middle Atlantic.....	48,603	West.....	20,531	South Atlantic.....	20,596
New York.....	12,712	California.....	15,886	Maryland.....	5,332
New Jersey.....	7,960			Virginia.....	1,771
Pennsylvania.....	27,931			North Carolina.....	9,726
North Central.....	62,475			Florida.....	2,573
Indiana.....	16,386			South Central.....	10,019
All other divisions.....	20,920			Tennessee.....	2,018
California.....	14,584			Texas.....	2,941
				Mountain.....	1,857
				Pacific.....	83,257
				California.....	81,839

<sup>1</sup>Revised.

For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 36511, Massachusetts, Connecticut, Pennsylvania, Ohio, Michigan, Minnesota, Iowa, Maryland, Tennessee, Texas, and California; 36512, New Jersey, Pennsylvania, Indiana, Minnesota, Tennessee, and California; 36513, New Hampshire, Pennsylvania, Indiana, Minnesota, Iowa, Kentucky, Oklahoma, and California; 36611, New York, New Jersey, Ohio, Minnesota, Nebraska, and Oklahoma; 36612, Indiana, Missouri, Nebraska, Maryland, Tennessee, Mississippi, and Arkansas; 36621, New Hampshire, Massachusetts, Indiana, Michigan, Iowa, Missouri, Florida, and Texas; 36622, New York, Pennsylvania, Indiana, Michigan, Minnesota, Iowa, and Maryland; 36623, New York, Pennsylvania, Michigan, Wisconsin, Minnesota, and Virginia; 36624, Connecticut, New York, Ohio, Indiana, Illinois, Iowa, Missouri, Virginia, Texas, Arizona, and California; 36625, New Hampshire, Rhode Island, Connecticut, New Jersey, Pennsylvania, Michigan, Iowa, Maryland, Virginia, North Carolina, South Carolina, Texas, and Arizona; 36626, New Hampshire, Connecticut, New York, Illinois, and Texas; 36791, Maine, New Hampshire, Connecticut, Indiana, Illinois, Minnesota, Virginia, Texas, Arizona, and Oregon; 36792, New Hampshire, Vermont, Rhode Island, Ohio, Nebraska, Virginia, Kentucky, Alabama, and Mississippi; 36793, New Hampshire, Massachusetts, Illinois, Wisconsin, Iowa, Nebraska, Kansas, and North Carolina; 36794, New Hampshire, Connecticut, Minnesota, Iowa, Maryland, West Virginia, North Carolina, Florida, and Oregon; 36795, Maine, Kansas, Alabama, and Oregon.



Table 7.—Materials Consumed, by Kind: 1958

Code	Material	Unit of measure	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3651—RADIO AND TV RECEIVING SETS		INDUSTRY 3661—TELEPHONE; TELEGRAPH APPARATUS		INDUSTRY 3662—RADIO, TV COMMUNICATION EQUIPMENT	
	Materials, parts, containers and supplies consumed, total.....	.....	xxx	894,137	xxx	(1)	xxx	960,621
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons	5,572	1,190	14,441	3,076	10,744	1,721
331212	Sheet and strip.....	do.	53,445	11,747	43,306	8,055	13,432	2,315
331213	Plates.....	do.	1,753	295	(2)	(2)	r (NA)	283
331217	Wire and wire products.....	do.	1,583	903	1,194	356	r (NA)	636
331215	Structural shapes.....	do.	498	156	3,501	635	15,077	3,046
331219	All other carbon steel mill shapes and forms.....	do.			25,834	21,807		
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do.	291	159	1,170	1,259	1,176	309
331225	All other alloy steel mill shapes and forms.....	do.	2,404	1,221			1,897	1,075
331231	Stainless steel mill shapes and forms.....	do.	61	73	1,251	1,609	1,784	2,572
	Copper and copper-base alloy:							
335111	Bare wire for electric conduction.....	1,000 lbs.	4,438	1,872	5,267	4,054	951	430
363111	Insulated wire and cable.....	1,000 lbs. copper content..	4,802	5,441	r18,111	r18,575	r9,524	r9,755
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)...	1,000 lbs.	758	416	25,164	10,534	2,415	1,789
	Aluminum and aluminum-base alloy:							
335257	Sheet, plate and foil.....	do.	2,673	1,671	4,350	2,088	8,562	5,179
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.	1,154	487	3,287	1,856	5,966	3,814
335911	Nickel and nickel-base alloy mill shapes and forms (rolled, drawn, and extruded)...	do.	121	355	xxx	xxx	146	311
	Castings (rough and semifinished, received from foundry):							
332311	Steel.....	Short tons	512	289	xxx	xxx	5,445	2,452
336121	Copper and copper-base alloy.....	1,000 lbs.	xxx	xxx	31	56	2,453	2,058
336111	Aluminum and aluminum-base alloy.....	do.	(NA)	1,229	800	921	4,103	4,617
	Fractional horsepower electric motors (under 1 horsepower):							
361412	Timing motors, synchronous and subsynchronous.....	1,000.....	824	4,862	xxx	xxx	(NA)	8,280
361419	All other fractional horsepower electric motors.....	do.	871	2,862	xxx	xxx	176	10,184
366231	Electron tubes (except X-ray).....	do.	103,736	135,053	6,136	11,830	22,723	56,246
339951	Ferrites (powder, shapes and forms).....	.....	xxx	1,298	xxx	xxx	xxx	212
329511	Mica.....	.....	xxx	148	xxx	xxx	xxx	xxx
366241	Solid state semiconductors (transistors, diodes, etc.).....	1,000.....	17,255	15,514	(NA)	3,430	6,582	18,248
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	xxx	578,553	xxx	(1)	xxx	r616,093
973000	Materials, supplies, containers, nsk.....	.....	xxx	128,343	xxx	xxx	xxx	208,996

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958—Continued

Code	Material	Unit of measure	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3671—ELECTRON TUBES, RECEIVING TYPE		INDUSTRY 3672—CATHODE RAY PICTURE TUBES		INDUSTRY 3673—ELECTRON TUBES, TRANSMITTING	
	Materials, components, parts, containers and supplies, total.....		xxx	73,442	xxx	86,200	xxx	73,346
335911	Nickel and nickel-base alloy mill shapes and forms (rolled, drawn, and extruded).....	1,000 lbs.	788	2,335	xxx	xxx	849	1,660
	Aluminum and aluminum-base alloy mill shapes and forms:							
335257	Sheet, plate and foil.....	....do....	xxx	xxx	xxx	xxx	120	107
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	....do....	xxx	xxx	xxx	xxx		
329511	Mica.....		xxx	4,776	xxx	xxx	xxx	163
339951	Ferrites (powder, shapes, and forms).....		xxx	2,149	xxx	xxx	xxx	xxx
335961	Molybdenum.....		xxx	1,263	xxx	xxx	xxx	753
335941	Tantalum mill products.....		xxx	xxx	xxx	xxx	xxx	121
339239	Tungsten wire.....		xxx	2,993	xxx	124	xxx	668
260091	Paper and paperboard containers.....		xxx	1,617	xxx	2,955	xxx	815
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	54,036	xxx	82,348	xxx	65,422
973000	Materials, parts, containers, and supplies, nsk.....		xxx	4,273	xxx	773	xxx	3,637

Code	Material	Unit of measure	Quantity	Delivered cost (\$1,000)	Code	Material	Unit of measure	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3679—ELECTRONIC COMPONENTS AND ACCESSORIES, NEC					INDUSTRY 3679—ELECTRONIC COMPONENTS AND ACCESSORIES, NEC—Continued	
	Materials, parts, containers and supplies, total.....		xxx	497,179		Mill shapes and forms (except castings)—Continued			
	Mill shapes and forms (except castings):					Aluminum and aluminum-base alloy—Continued			
	Carbon steel:				335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	1,000 lbs.	15,451	8,027
331211	Bars and bar shapes.....	Short tons	9,237	2,318					
331212	Sheet and strip.....	....do....	24,318	5,211					
331213	Plates.....	....do....	1,009	194	335911	Nickel and nickel-base alloy mill shapes and forms (rolled, drawn, and extruded).....	....do....	1,178	3,056
331215	Structural shapes.....	....do....	1,986	500					
331217	Wire and wire products.....	....do....	4,532	2,478	335941	Tantalum mill products.....	....do....	xxx	2,023
331219	All other carbon steel mill shapes and forms.....	....do....	30,355	6,971		Castings (rough and semifinished, received from foundry):			
	Alloy steel (except stainless):				332311	Steel.....	Short tons	385	262
331221	Bars and bar shapes.....	....do....	8,120	4,578	336121	Copper and copper-base alloy..	1,000 lbs.	321	290
331225	All other alloy steel mill shapes and forms.....	....do....			336111	Aluminum and aluminum-base alloy.....	....do....	1,186	1,215
331231	Stainless steel mill shapes and forms.....	....do....	651	811		Fractional horsepower electric motors (under 1 horsepower):			
	Copper and copper-base alloys:				361412	Timing motors, synchronous and subsynchronous.....	1,000.....	114	524
335111	Bare wire for electric conduction.....	1,000 lbs.	14,585	8,748	361419	All other fractional horsepower electric motors.....	....do....	1,782	5,886
363111	Insulated wire and cable...	1,000 lbs. copper content..	10,047	8,753	366231	Electron tubes (except X-ray)....	....do....	2,474	3,390
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)....	1,000 lbs.	<sup>r</sup> 10,197	<sup>r</sup> 8,833	339951	Ferrites (powder, shapes and forms).....		xxx	3,605
	Aluminum and aluminum-base alloy:				329511	Mica.....		xxx	2,604
	Sheet, plate and foil.....	....do....	14,297	11,728	366241	Solid state semiconductors (transistors, diodes, etc.).....	1,000.....	1,732	2,599
					970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	<sup>r</sup> 327,993
					973000	Materials, parts, containers, nsk.....		xxx	76,057

NA Not available. <sup>r</sup>Revised.<sup>1</sup>Omitted because of extensive duplication in the value of shipments. See text for a more detailed explanation.<sup>2</sup>Data for "Plates" included with "All other carbon steel shapes and forms."



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3651	RADIO AND TV RECEIVING SETS (entire industry).....	234	66,504	292,664	52,047	100,487	196,565	593,953	936,314	1,548,006	11,308
	Establishments with:										
	90% or more specialization.....	168	43,523	185,320	35,685	68,897	129,905	435,788	721,071	1,168,546	7,007
	75-89% specialization.....	19	8,749	42,736	6,067	11,916	25,945	61,152	92,938	155,862	1,616
36511	Household radio, phonographs and radio-phonographs (primary product class of estab.).....	61	23,681	102,402	18,835	36,321	71,115	198,023	313,843	517,630	4,257
	Establishments with:										
	90% or more specialization....	40	7,916	30,010	6,913	13,462	23,241	73,688	153,487	230,171	917
	75-89% specialization.....	8	6,396	31,530	4,751	9,038	20,682	49,561	53,015	105,852	1,645
36512	Household television receivers, including television combinations (primary product class of estab.)..	17	26,492	123,115	20,732	40,042	82,185	282,044	502,493	798,354	4,095
	Establishments with:										
	90% or more specialization....	10	14,355	66,413	11,489	21,980	44,284	169,067	295,494	479,231	3,302
36513	Recorders, audio amplifiers, tuners and other audio equipment (primary product class of estab.)..	150	16,293	66,987	12,450	24,072	43,144	113,472	119,870	231,511	2,944
	Establishments with:										
	90% or more specialization....	101	6,888	25,699	5,777	11,038	18,245	45,656	48,558	90,622	1,140
	75-89% specialization.....	10	1,235	5,499	835	1,685	2,787	10,195	6,440	16,516	(1)
3661	TELEPHONE AND TELEGRAPH APPARATUS (entire industry).....	95	85,544	460,499	55,547	107,833	275,071	740,855	(2)	(2)	103,517
	Establishments with:										
	90% or more specialization.....	74	80,489	435,503	52,304	101,434	261,971	686,565	(2)	(2)	102,506
3662	RADIO, TV COMMUNICATION EQUIPMENT (entire industry).....	514	129,515	743,399	78,137	157,118	377,246	1,297,583	1,098,351	2,414,620	43,935
	Establishments with:										
	90% or more specialization.....	336	64,658	373,239	41,048	82,681	201,730	629,112	548,126	1,201,296	21,598
	75-89% specialization.....	58	24,880	137,244	14,223	28,798	66,488	243,989	169,056	405,499	10,228
36621	Commercial, industrial and military communication equipment (primary product class of estab.).....	82	38,246	205,267	23,690	47,737	108,994	327,016	357,597	699,496	15,100
	Establishments with:										
	90% or more specialization....	36	3,942	21,788	2,373	4,753	9,069	36,293	28,704	65,928	1,322
	75-89% specialization.....	12	3,704	17,576	1,929	3,917	7,259	22,060	23,840	48,155	1,613
36622	Radio and television broadcast equipment (primary product class of estab.).....	95	2,240	11,265	1,530	3,234	6,574	18,469	12,505	30,379	1,361
	Establishments with:										
	90% or more specialization....	73	1,238	5,441	882	1,885	3,432	9,316	8,118	17,354	1,078
	75-89% specialization.....	9	251	1,095	138	277	447	1,544	1,611	2,562	(1)
36623	Intercommunication equipment (primary product class of estab.)..	149	10,271	52,407	5,973	10,893	25,714	91,258	47,824	140,504	2,853
	Establishments with:										
	90% or more specialization....	124	5,018	26,000	3,074	5,625	13,134	45,229	30,544	76,365	1,676
	75-89% specialization.....	14	3,948	19,541	2,029	3,514	8,799	35,647	9,536	46,388	(D)
36624	Electronic navigational aids (primary product class of estab.)..	23	12,866	74,367	7,939	16,072	40,082	107,492	86,583	204,971	2,838
36625	Electronic search and detection apparatus (primary product class of estab.).....	54	42,102	246,176	27,183	55,222	139,208	451,149	421,518	874,149	14,282
	Establishments with:										
	90% or more specialization....	20	19,326	109,480	13,385	27,286	68,321	225,108	244,267	469,831	7,274
	75-89% specialization.....	9	5,093	30,885	3,802	7,982	20,806	63,088	34,418	89,279	3,502
36626	Electronic military, industrial and commercial equipment, nec (primary product class of estab.).....	81	23,686	153,570	11,736	23,805	56,396	281,504	171,923	464,094	7,463
	Establishments with:										
	90% or more specialization....	47	5,126	30,389	3,401	6,820	16,298	45,352	28,367	76,788	2,864
	75-89% specialization.....	6	371	1,888	184	376	719	2,353	1,149	3,835	(1)
3673	ELECTRON TUBES, TRANSMITTING (entire industry).....	48	20,146	102,150	14,475	29,472	65,134	165,803	90,669	258,474	9,021
	Establishments with:										
	90% or more specialization.....	32	10,253	48,866	8,220	16,832	34,843	87,867	39,759	127,361	3,437
	75-89% specialization.....	5	1,448	7,736	883	1,772	4,248	11,101	10,065	22,757	(1)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 8.--General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958--Continued

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3679	ELECTRONIC COMPONENTS, NEC (entire industry).....	1,479	132,242	564,021	102,881	201,387	367,326	914,811	548,973	1,445,684	50,306
	Establishments with:										
	90% or more specialization.....	1,208	88,489	373,214	70,113	138,179	245,287	607,710	352,625	948,166	38,422
	75-89% specialization.....	82	16,829	72,843	12,702	25,463	47,879	104,964	74,071	178,504	3,947
36791	Solid state semiconductor devices (primary product class of estab.)..	41	21,759	105,326	16,691	32,724	62,701	171,830	67,844	230,597	14,659
	Establishments with:										
	90% or more specialization....	35	17,795	82,339	13,896	27,283	50,336	139,321	59,107	189,394	13,001
36792	Capacitors for electronic applications (primary product class of estab.).....	82	23,125	82,699	18,909	36,690	59,820	128,417	69,144	197,490	3,859
	Establishments with:										
	90% or more specialization....	57	10,572	35,472	8,933	17,389	26,312	56,835	25,366	82,009	1,323
	75-89% specialization.....	12	7,005	28,042	5,430	10,490	19,775	39,552	22,659	62,681	1,269
36793	Resistors for electronic applications (primary product class of estab.).....	63	13,701	58,742	10,547	21,209	38,435	95,179	39,663	133,945	3,302
	Establishments with:										
	90% or more specialization....	43	8,060	35,694	6,194	12,682	23,077	59,219	18,628	77,305	1,933
	75-89% specialization.....	4	1,056	3,513	870	1,676	2,510	7,116	6,078	13,442	( <sup>1</sup> )
36794	Coils, transformers, reactors and chokes for electronic applications (primary product class of estab.)..	170	21,422	77,515	17,117	32,744	51,058	112,377	89,181	201,279	2,864
	Establishments with:										
	90% or more specialization....	131	14,009	51,827	11,429	22,368	34,969	73,586	58,557	132,824	1,938
	75-89% specialization.....	9	1,528	5,311	1,313	2,488	4,067	8,316	6,765	14,955	( <sup>1</sup> )
36795	Other electronic components, nec (primary product class of estab.)..	657	44,678	207,759	33,503	66,313	131,105	344,676	235,012	576,771	19,172
	Establishments with:										
	90% or more specialization....	499	22,817	100,871	17,758	35,328	67,319	170,728	122,331	293,804	10,632
	75-89% specialization.....	56	6,144	29,716	4,411	8,905	17,161	41,290	31,466	72,727	1,827

<sup>1</sup>Less than \$500 thousand. <sup>2</sup>Omitted because of extensive duplication. See text for explanation.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation											
	Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation (1,000)			
	Total	Number of production workers			Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3651—RADIOS AND TV RECEIVING SETS												
Total, all operations.....	xxx	xxx	xxx	xxx	51,121	xxx	xxx	xxx	96,369	xxx	xxx	xxx
Nonferrous die casting.....	4	3	...	1	(D)	5	...	(D)	(D)	9	...	(D)
Electroplating.....	18	7	8	3	223	15	90	118	445	29	173	243
Galvanizing and other hot dip coating.....	7	4	3	...	36	9	27	...	71	18	53	...
Heat treating and annealing.....	8	6	2	...	23	(D)	(D)	...	45	(D)	(D)	...
Automatic screw machine department.....	11	8	1	2	91	18	(D)	(D)	167	34	(D)	(D)
Machine shop.....	64	17	26	21	1,243	42	252	949	2,368	87	533	1,748
Tool and die shop.....	52	21	24	7	668	39	262	367	1,352	81	529	742
Plate or structural fabrication.....	4	1	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stamping, blanking, and forming.....	53	12	21	20	1,242	35	219	988	2,342	62	416	1,864
Painting, lacquering, and enameling.....	50	20	22	8	656	48	203	405	1,243	97	344	802
Plastics molding.....	7	3	2	2	99	7	(D)	(D)	193	13	(D)	(D)
Assembly of product.....	129	2	11	116	37,403	(D)	(D)	37,268	69,994	(D)	(D)	69,712
Shipping department (including packing and crating).....	113	51	36	26	1,862	112	325	1,425	3,700	218	604	2,878
All other operations.....	103	34	22	47	7,075	72	222	6,781	13,840	137	414	13,235
INDUSTRY 3661—TELEPHONE; TELEGRAPH APPARATUS												
Total, all operations.....	xxx	xxx	xxx	xxx	54,034	xxx	xxx	xxx	105,459	xxx	xxx	xxx
Nonferrous die casting.....	4	1	1	2	139	(D)	(D)	(D)	260	(D)	(D)	(D)
Electroplating.....	18	6	6	6	461	12	49	400	887	23	94	770
Galvanizing and other hot dip coating.....	5	2	2	1	55	(D)	(D)	(D)	103	(D)	(D)	(D)
Heat treating and annealing.....	17	9	4	4	283	18	25	240	547	34	49	464
Automatic screw machine department.....	21	8	4	9	672	18	43	611	1,326	33	84	1,209
Machine shop.....	38	4	16	18	2,637	8	150	2,479	5,202	14	302	4,886
Tool and die shop.....	27	8	5	14	1,425	27	54	1,344	2,789	54	100	2,635
Plate or structural fabrication.....	12	...	4	8	1,210	...	40	1,170	2,508	...	72	2,436
Stamping, blanking, and forming.....	36	7	13	16	1,899	13	156	1,730	3,560	22	279	3,259
Painting, lacquering, and enameling.....	29	15	6	8	545	31	78	436	1,027	61	137	829
Plastics molding.....	10	2	1	7	911	(D)	(D)	897	1,774	(D)	(D)	1,749
Assembly of product.....	52	...	10	42	33,727	...	129	33,598	65,825	...	222	65,603
Shipping department (including packing and crating).....	44	16	15	13	1,191	33	130	1,028	2,374	55	255	2,064
All other operations.....	45	11	10	24	8,879	24	110	8,745	17,277	44	234	16,999
INDUSTRY 3662—RADIO, TV COMMUNICATION EQUIPMENT												
Total, all operations.....	xxx	xxx	xxx	xxx	73,090	xxx	xxx	xxx	153,485	xxx	xxx	xxx
Nonferrous die casting.....	2	1	...	1	(D)	(D)	...	(D)	(D)	(D)	...	(D)
Electroplating.....	39	18	15	6	361	40	134	187	656	72	220	364
Galvanizing and other hot dip coating.....	11	8	2	1	53	11	(D)	(D)	106	22	(D)	(D)
Heat treating and annealing.....	24	18	6	...	80	28	52	...	127	50	77	...
Automatic screw machine department.....	23	15	6	2	(D)	34	(D)	(D)	288	63	(D)	(D)
Machine shop.....	168	44	56	68	6,239	116	630	5,493	9,607	290	984	8,333
Tool and die shop.....	76	33	27	16	1,052	76	260	716	3,928	2,117	383	1,428
Plate or structural fabrication.....	37	15	9	13	1,384	29	93	1,262	2,330	60	192	2,078
Stamping, blanking, and forming.....	92	39	28	25	1,751	82	310	1,359	3,429	133	585	2,711
Painting, lacquering, and enameling.....	109	73	25	11	794	137	212	445	1,655	330	384	941
Plastics molding.....	11	9	1	1	97	15	(D)	(D)	(D)	29	(D)	(D)
Assembly of product.....	212	26	54	132	32,749	63	621	32,065	78,175	7,146	603	63,029
Shipping department (including packing and crating).....	177	109	41	27	2,192	198	417	1,577	4,257	448	738	3,020
All other operations.....	155	44	24	87	26,159	76	255	25,825	48,699	138	494	48,064
INDUSTRY 3671—ELECTRON TUBES, RECEIVING TYPE												
Total, all operations.....	xxx	xxx	xxx	xxx	30,386	xxx	xxx	xxx	55,762	xxx	xxx	xxx
Electroplating.....	4	2	2	...	16	(D)	(D)	...	27	(D)	(D)	...
Heat treating and annealing.....	6	3	2	1	66	6	(D)	(D)	130	7	(D)	(D)
Machine shop.....	22	4	10	8	492	7	120	365	938	6	233	659
Tool and die shop.....	6	1	1	4	183	(D)	(D)	173	361	(D)	(D)	345
Stamping, blanking, and forming.....	5	1	3	1	206	(D)	35	(D)	398	(D)	75	(D)
Painting, lacquering, and enameling.....	4	1	1	2	52	(D)	(D)	(D)	104	(D)	(D)	(D)
Assembly of product.....	26	3	2	21	23,178	(D)	(D)	23,150	41,735	(D)	(D)	41,181
Shipping department (including packing and crating).....	16	7	3	6	344	12	31	301	704	14	69	571
All other operations.....	26	3	2	21	5,849	(D)	(D)	5,817	11,365	(D)	(D)	10,854

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers (and Man-hours) Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation											
	Establishments				Employment in the specified operation				Number of man-hours worked by production workers in the specified operation (1,000)			
	Total	Number of production workers			Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3672—CATHODE RAY PICTURE TUBES												
Total, all operations.....	xxx	xxx	xxx	xxx	6,377	xxx	xxx	xxx	12,913	xxx	xxx	xxx
Electroplating.....	1	1	...	...	(D)	(D)	...	...	(D)	(D)	...	...
Heat treating and annealing.....	4	1	1	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Machine shop.....	6	2	3	1	89	(D)	37	(D)	203	(D)	80	(D)
Tool and die shop.....	1	...	...	1	(D)	...	...	(D)	(D)	...	...	(D)
Stamping, blanking, and forming.....	1	...	...	1	(D)	...	...	(D)	...	...	...	...
Painting, lacquering, and enameling.....	11	7	2	2	193	9	(D)	(D)	416	15	(D)	(D)
Assembly of product.....	26	3	10	13	3,224	7	113	3,104	6,443	9	220	6,214
Shipping department (including packing and crating).....	22	15	5	2	196	28	(D)	(D)	377	55	(D)	(D)
All other operations.....	18	6	3	9	2,468	9	28	2,431	5,071	15	55	5,000
INDUSTRY 3673—ELECTRON TUBES, TRANSMITTING												
Total, all operations.....	xxx	xxx	xxx	xxx	13,893	xxx	xxx	xxx	28,083	xxx	xxx	xxx
Electroplating.....	17	9	4	4	173	25	44	104	347	43	87	217
Heat treating and annealing.....	22	16	5	1	(D)	28	(D)	(D)	(D)	52	(D)	(D)
Machine shop.....	36	10	8	18	1,348	22	70	1,256	2,716	40	132	2,544
Tool and die shop.....	16	4	8	4	273	7	76	190	543	10	129	404
Stamping, blanking, and forming.....	18	8	6	4	177	15	62	100	321	23	110	188
Painting, lacquering, and enameling.....	15	11	3	1	77	17	(D)	(D)	152	32	(D)	(D)
Plastics molding.....	3	...	3	...	(D)	...	(D)	...	(D)	...	(D)	...
Assembly of product.....	37	2	1	34	8,986	(D)	(D)	8,971	18,141	(D)	(D)	18,112
Shipping department (including packing and crating).....	37	23	8	6	294	49	72	173	580	85	144	351
All other operations.....	34	4	14	16	2,435	9	127	2,299	5,019	22	444	4,553
INDUSTRY 3679—ELECTRONIC COMPONENTS, NEC												
Total, all operations.....	xxx	xxx	xxx	xxx	83,067	xxx	xxx	xxx	162,212	xxx	xxx	xxx
Nonferrous die casting.....	1	1	...	...	(D)	(D)	...	...	(D)	(D)	...	...
Electroplating.....	78	42	33	3	507	88	336	83	952	145	653	154
Galvanizing and other hot dip coating.....	27	16	7	4	204	29	80	95	373	57	126	190
Heat treating and annealing.....	60	42	12	6	899	66	115	718	1,694	92	213	1,389
Automatic screw machine department.....	32	14	13	5	313	26	115	172	608	37	216	355
Machine shop.....	325	139	118	68	4,536	339	1,153	3,044	9,329	577	1,973	6,779
Tool and die shop.....	149	81	48	20	1,400	190	419	791	4,565	2,339	822	1,404
Plate or structural fabrication.....	29	15	8	6	(D)	(D)	95	765	(D)	(D)	174	527
Stamping, blanking, and forming.....	210	101	62	47	3,394	222	590	2,582	5,365	362	1,047	3,956
Painting, lacquering, and enameling.....	185	136	33	16	1,354	255	287	812	2,144	412	380	1,352
Plastics molding.....	72	39	21	12	707	94	202	411	1,349	169	395	785
Assembly of product.....	458	40	61	357	57,170	106	743	56,321	109,914	188	1,368	108,358
Shipping department (including packing and crating).....	396	298	78	20	2,013	579	645	789	4,201	1,351	1,245	1,604
All other operations.....	354	135	95	124	9,666	262	896	8,508	20,946	2,513	1,741	16,691

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3651	3661	3662	3671	3672	3673	3679
Total number of establishments in the industry.....	234	95	512	85	75	48	1,479
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	216	90	466	80	60	43	1,292
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	over 95	over 95	90-95	over 95	90-95	over 95	over 95

D Withheld to avoid disclosing figures of individual companies.



# Miscellaneous Electrical Machinery, Equipment and Supplies

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3691--Storage Batteries
- 3692--Primary Batteries, Dry and Wet
- 3693--Radiographic X-ray, Fluoroscopic X-ray, Therapeutic X-ray, and Other X-ray Apparatus and Tubes
- 3694--Electrical Equipment for Internal Combustion Engines
- 3699--Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified

### 3691--Storage Batteries

This industry comprises establishments primarily engaged in the manufacture of storage batteries for automobiles, trucks, farm tractors and busses as well as storage batteries for farm uses, communications systems and railroad equipment. Parts for storage batteries are also included in this industry. For a detailed list of products of Industry 3691, refer to table 6A, product codes 3691112 to 3691298.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Storage Batteries Industry in 1958 totaled \$369 million. This included shipments of storage batteries (primary products), valued at \$360 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts (mainly resales) of \$7 million.

This industry's shipments of storage batteries (primary products) in 1958 represented 99 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 100 percent.

While the primary products of the industry include storage batteries (SLI type) and storage batteries (other than SLI type), the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 80 percent of the total industry shipments are represented by plants specializing in storage batteries (SLI type); and 19 percent in storage batteries (other than SLI type).

Industry 3691 shipments of storage batteries (primary products) in 1958 represented almost 100 percent (coverage ratio) of these products valued at \$361 million shipped by all industries. In 1954, the coverage ratio was also almost 100 percent.

### 3692--Primary Batteries, Dry and Wet

This industry comprises establishments primarily engaged in the manufacture of dry and wet cell primary batteries for flashlights, railroad lanterns, hearing aids, portable radios, farm radios, and general purposes as well as parts and supplies for primary batteries. For

a detailed list of products of Industry 3692, refer to table 6A, product codes 3692011 to 3692085.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Primary Batteries Industry in 1958 totaled \$138 million. This included shipments of primary batteries (primary products), valued at \$133 million, shipments of other products (secondary products) valued at \$1 million, and miscellaneous receipts (mainly resales) of \$4 million.

This industry's shipments of primary batteries (primary products) in 1958 represented 99 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 98 percent.

Industry 3692 shipments of primary batteries (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$136 million shipped by all industries. In 1954, the coverage ratio was also 98 percent.

### 3693--Radiographic X-ray, Fluoroscopic X-ray, Therapeutic X-ray, and Other X-ray Apparatus and Tubes

This industry comprises establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research and control applications. Establishments primarily engaged in manufacturing radio receiving type tubes are classified in Industry 3671; television receiving cathode ray tubes in Industry 3672; transmitting tubes in Industry 3673; and electrotherapeutic lamp units for ultra-violet and infra-red radiation in Industry 3641. For a detailed list of products of Industry 3693, refer to table 6A, product codes 3693012 to 3693091.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

In addition, ultraviolet and infra-red health lamp fixtures, formerly classified in this industry, are now considered primary to Industry 3642, Lighting Fixtures.

Value of shipments and other receipts of the X-Ray and Therapeutic Apparatus Industry in 1958 totaled \$95 million. This included shipments of X-ray and therapeutic apparatus (primary products), valued at \$60 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts (mainly resales) of \$24 million.

This industry's shipments of X-ray and therapeutic apparatus (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 81 percent. The \$11 million of secondary products can not be broken down further without disclosing the operations of individual companies. However, product classes for which shipments totalled \$2 million or more each, are spelled out in footnote 2 to table 5B.



Industry 3693 shipments of X-ray and therapeutic apparatus (primary products) in 1958 represented 82 percent (coverage ratio) of these products valued at \$73 million shipped by all industries. In 1954, the coverage ratio was 91 percent. Other industries shipping x-ray and therapeutic apparatus (primary products) consisted mainly of Industry 3611, Electric Measuring Instruments, and Industry 3673, Electron Tubes, Transmitting, over \$2 million each.

#### 3694--Electrical Equipment for Internal Combustion Engines.

This industry comprises establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry include starting motors and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors. For a detailed list of products of Industry 3694, refer to table 6A, product codes 3694115 to 3694698.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Engine Electrical Equipment Industry in 1958 totaled \$632 million. This included shipments of engine electrical equipment (primary products), valued at \$508 million, shipments of other products (secondary products) valued at \$75 million, and miscellaneous receipts (mainly resales) of \$49 million.

This industry's shipments of engine electrical equipment (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 85 percent. Secondary products shipped by this industry in 1958 included carburetors, pistons and other machine shop products (\$5 million), and carbon and graphite products (\$3 million). The remaining \$67 million can not be broken down further without disclosing the operations of individual companies. However, product classes for which shipments totalled \$2 million or more each, are spelled out in footnote 6 to table 5B.

While the primary products of the industry include ignition, harness and cable sets, battery charging generators, spark plugs, other complete electrical equipment for internal combustion engines, and components and parts for engine electrical equipment, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 6 percent of the total industry shipments are represented by plants specializing in ignition harness and cable sets; 42 percent in battery charging generators; 17 percent in spark plugs; 15 percent in other complete electric equipment for internal combustion engines; and 17 percent in components and parts for engine electrical equipment.

Industry 3694 shipments of engine electrical equipment (primary products) in 1958 represented 84 percent (coverage ratio) of these products valued at \$604 million shipped by all industries. In 1954, the coverage ratio was 87 per-

cent. Other industries shipping \$2 million or more each of engine electrical equipment (primary products) are spelled out in footnotes 3, 4, and 5 to table 5B. However, the exact figures are withheld to avoid disclosing individual company figures.

#### 3699--Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing electrical machinery, equipment and supplies, n.e.c. For a detailed list of products of Industry 3699, refer to table 6A, product codes 3699211 to 3699600.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Approximately 19 percent of the employees formerly classified in Industry 3699, Electrical Products, N.E.C., are now Classified in Industry 3357, Nonferrous Wire Drawing, N.E.C.

Value of shipments and other receipts of the Electrical Products, N.E.C., Industry in 1958 totaled \$165 million. This included shipments of electrical products, n.e.c., (primary products), valued at \$135 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts (mainly resales) of \$17 million.

This industry's shipments of electrical products, n.e.c., (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 89 percent. Secondary products shipped by this industry in 1958 included current carrying wiring (\$3 million). The remaining \$10 million can not be broken down further without disclosing the operations of individual companies.

While the primary products of the industry include lamp bulb components and other electrical products and appliance wire and cord and flexible cord sets, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 60 percent of the total industry shipments are represented by plants specializing in lamp bulb components and other electrical products and 35 percent in appliance wire and cord and flexible cord sets.

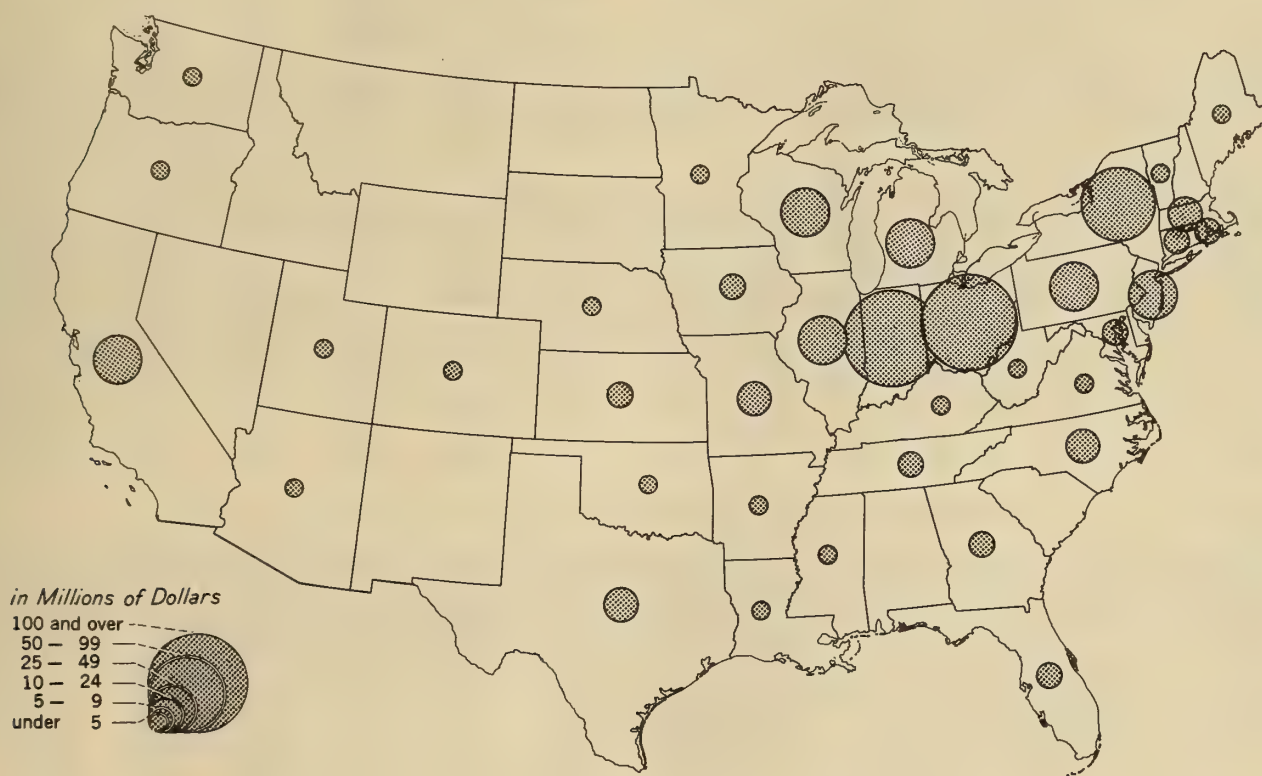
Industry 3699 shipments of electrical products, n.e.c., (primary products) in 1958 represented 54 percent (coverage ratio) of these products valued at \$249 million shipped by all industries. In 1954, the coverage ratio was 48 percent. Other industries shipping electrical products, n.e.c., (primary products) consisted mainly of Industry 3357, Nonferrous Wire Drawing, \$66 million; and Industry 3643 Current Carrying Wiring, \$8 million.



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

### MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES: SIC 369

Value Added by Manufacture by State: 1958



Includes Industries 3691, 3692, 3693, 3694 and 3699. See Table 2.

Bureau of the Census M-58-D369

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)	
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)							
3691 (old SIC 3691)	Storage batteries:															
		1958.....	207	276	106	14,924	76,961	11,787	23,205	55,459	150,061	211,794	368,993	7,330	99	100
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	14,522	72,217	11,266	21,554	51,282	132,565	226,719	359,353	(S)	98	100
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,820	71,284	11,983	23,488	51,591	124,274	242,962	362,869	17,474	(NA)	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,882	71,582	11,827	24,120	51,070	129,713	245,835	370,954	9,609	(NA)	(NA)
		1954.....	244	308	101	15,670	66,872	11,899	23,244	46,415	128,882	215,854	343,668	10,512	100	100
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,292	73,341	13,315	26,494	53,218	138,795	234,420	373,215	(NA)	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,286	67,185	12,972	26,935	51,071	135,200	238,568	373,768	(NA)	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,794	64,254	13,531	27,948	49,131	138,698	248,329	387,027	(NA)	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,368	57,973	12,927	26,436	42,450	120,419	193,065	313,484	(NA)	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,742	52,320	12,282	24,855	37,073	107,291	175,422	281,713	(NA)	(NA)	(NA)
		1947.....	205	246	(NA)	16,570	49,734	13,632	29,541	38,257	114,246	183,408	297,654	(NA)	90	99
		1939.....	(NA)	190	(NA)	(NA)	(NA)	9,564	(NA)	12,743	35,841	48,932	84,773	(NA)	(NA)	(NA)
3692 (old SIC 3692)	Primary batteries, dry and wet:															
		1958.....	24	42	29	8,096	34,025	6,498	13,236	24,455	75,431	59,518	138,215	2,343	99	98
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,049	33,101	6,575	12,568	24,131	70,493	62,455	126,369	2,121	99	97
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,421	35,572	7,582	14,312	26,056	62,505	63,271	124,744	2,255	(NA)	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,668	35,489	8,042	15,053	26,170	59,499	62,100	124,752	(S)	(NA)	(NA)
		1954.....	20	41	33	10,773	36,633	8,893	16,814	27,427	58,490	61,080	123,803	2,088	98	98
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	12,331	40,254	10,617	20,524	31,575	76,159	72,830	148,989	(NA)	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,481	36,105	9,789	19,432	28,516	57,768	70,177	127,945	(NA)	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,960	32,839	9,409	18,500	26,131	50,109	62,582	112,691	(NA)	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,008	27,610	8,657	17,043	22,149	49,908	46,845	96,753	(NA)	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,516	25,514	8,006	16,235	19,891	44,691	41,385	86,076	(NA)	(NA)	(NA)
		1947.....	23	38	(NA)	10,261	24,463	9,181	18,407	20,656	45,275	39,770	85,045	(NA)	90	98
		1939.....	(NA)	31	(NA)	(NA)	(NA)	5,470	(NA)	6,466	18,565	14,245	32,810	(NA)	(NA)	(NA)
3693 (old SIC 3693)	X-ray and therapeutic apparatus:															
		1958.....	124	126	33	5,258	30,686	3,012	5,856	14,308	58,436	35,743	95,090	1,371	84	82
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
		1954.....	129	130	35	7,054	32,583	4,601	9,036	17,688	57,665	40,736	97,043	1,913	81	91
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,551	28,235	4,317	8,909	16,373	48,938	20,803	69,741	(NA)	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,294	25,845	4,232	9,090	15,491	45,160	20,390	65,560	(NA)	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,945	18,297	3,172	6,594	9,960	31,688	12,707	44,395	(NA)	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,306	18,318	3,329	6,511	10,078	34,102	15,695	49,797	(NA)	(NA)	(NA)
		1947.....	114	116	30	7,678	23,217	5,621	11,762	15,354	38,635	20,473	59,518	2,271	94	93
		1939.....	(NA)	77	(NA)	(NA)	(NA)	1,920	(NA)	2,708	12,057	5,690	17,747	(NA)	(NA)	(NA)
1937.....	(NA)	46	(NA)	(NA)	(NA)	1,936	(NA)	2,760	11,912	5,236	17,148	(NA)	(NA)	(NA)		
3694 (old SIC 3641)	Engine electrical equipment:															
		1958.....	147	166	98	39,840	201,949	30,915	60,212	140,618	366,626	260,407	631,868	9,102	87	84
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	50,874	235,627	40,519	78,714	168,949	435,489	301,781	723,211	12,430	85	87
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	49,277	227,134	39,505	79,474	165,392	396,855	284,530	672,112	16,983	(NA)	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	53,600	245,103	44,253	91,616	186,006	440,894	327,988	745,645	16,880	(NA)	(NA)
		1954.....	154	169	105	46,349	200,279	37,219	74,147	146,769	336,623	264,580	612,344	18,172	85	87
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	52,970	216,471	44,047	86,872	167,704	348,020	283,053	631,073	(NA)	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	47,737	194,485	39,359	79,363	150,701	314,830	242,299	557,129	(NA)	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	51,169	195,591	43,130	85,859	153,850	330,828	265,089	595,917	(NA)	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	39,971	149,315	33,516	69,280	117,038	263,847	189,779	453,626	(NA)	(NA)	(NA)
		1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	36,890	124,328	30,471	59,018	94,650	204,471	152,665	357,136	(NA)	(NA)	(NA)
		1947.....	100	112	(NA)	44,450	126,737	38,449	73,329	103,249	198,656	159,143	357,799	(NA)	89	91
		1939.....	(NA)	90	(NA)	(NA)	(NA)	17,043	(NA)	23,675	66,066	40,565	106,631	(NA)	(NA)	(NA)
3699	Electrical products, nec: <sup>9</sup>															
	1958.....	247	259	99	10,259	39,342	8,182	15,776	26,342	73,581	89,733	165,388	1,364	91	54	

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

Footnotes continued on next page.



Footnotes for table 1—36E

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3691	127,503	3694	339,251
3692	62,388	3699	(NA)
3693	51,518		

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3691	209,744	213,869	3694	236,501	247,872
3692	57,008	59,442	3699	77,839	(NA)
3693	23,237	28,424			

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3691	366,592	341,374	3694	590,192	587,124
3692	134,930	121,831	3699	151,024	(NA)
3693	76,673	79,943			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3699—Electrical products, nec.....	259	99	10,259	73,581	xxx	xxx	xxx	xxx
Old Industry 3699—Electrical products, nec.....	253	95	9,906	71,349	279	110	11,911	97,214
Old Industry 3669—Communications equipment, nec.....	6	4	353	2,232	xxx	xxx	xxx	xxx

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3691	Storage batteries, total.....	276	106	14,924	76,961	11,787	23,205	55,459	150,061	368,993	7,330	15,670	127,503	16,570
	New England.....	16	6	501	2,255	381	718	1,700	5,758	13,056	( <sup>2</sup> )	594	4,551	371
	Massachusetts....	11	5	371	1,507	270	500	1,057	3,926	8,492	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic....	40	18	5,238	29,213	3,843	7,737	18,188	46,260	105,459	1,793	6,228	45,864	7,685
	New York.....	11	5	1,011	5,124	752	1,556	3,512	9,168	22,336	( <sup>2</sup> )	1,269	9,160	1,028
	New Jersey.....	10	4	1,556	7,901	1,115	2,183	5,468	14,300	31,997	581	2,003	16,694	2,232
	Pennsylvania.....	19	9	2,671	16,188	1,976	3,998	9,208	22,792	51,126	963	2,956	20,009	4,425
	North Central.....	68	33	5,406	27,121	4,497	8,640	21,635	55,904	138,602	2,558	5,661	48,188	5,364
	Ohio.....	7	5	819	4,248	698	1,368	3,747	8,511	20,390	531	1,215	9,577	1,526
	Indiana.....	7	4	1,670	9,056	1,390	2,679	7,167	15,697	35,476	690	1,453	14,342	1,524
	Illinois.....	22	7	872	4,324	683	1,264	3,028	12,630	28,646	( <sup>2</sup> )	1,045	12,801	647
	Michigan.....	7	3	446	2,276	367	740	1,827	4,412	12,661	( <sup>2</sup> )	575	3,512	72
	South Atlantic....	39	11	830	3,970	680	1,359	3,043	10,236	25,728	1,248	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central	11	6	364	1,685	306	615	1,321	4,412	12,055	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West South Central	25	8	833	3,898	676	1,360	3,026	9,258	22,925	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Mountain.....	8	5	188	783	141	280	598	2,129	5,170	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pacific.....	69	19	1,564	8,036	1,263	2,496	5,948	16,104	45,998	774	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Oregon.....	8	3	132	638	104	209	477	1,314	3,987	240	145	937	130
	California.....	56	15	1,391	7,205	1,133	2,239	5,351	14,419	41,197	730	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3692	Primary batteries, dry and wet, total.	42	29	8,096	34,025	6,498	13,236	24,455	75,431	138,215	2,343	10,773	62,388	10,261
	New England.....	4	3	335	1,473	249	478	905	2,748	5,833	( <sup>2</sup> )	1,260	7,611	2,659
	Middle Atlantic....	9	7	1,330	5,684	1,033	2,046	3,995	13,903	23,281	( <sup>2</sup> )	1,534	9,423	2,659
	North Central, South, and West..	29	19	6,431	26,868	5,216	10,712	19,555	58,780	109,101	2,041	7,979	45,354	7,602
	Wisconsin.....	5	5	1,089	3,793	1,008	2,014	3,378	7,889	18,492	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3693	X-ray and therapeutic apparatus, total	126	33	5,258	30,686	3,012	5,856	14,308	58,436	95,090	1,371	7,054	51,518	7,678
	New England.....	10	...	77	379	56	101	213	824	1,245	( <sup>2</sup> )	1,406	10,153	(D)
	Middle Atlantic....	37	14	1,193	6,190	713	1,409	3,107	11,738	18,568	( <sup>2</sup> )	876	6,782	(D)
	Pennsylvania.....	9	4	166	1,038	101	201	439	2,376	4,015	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	North Central....	46	14	3,205	18,187	1,842	3,572	9,144	34,784	52,894	963	3,582	25,708	(D)
	South and West....	33	5	783	5,930	401	774	1,844	11,090	22,383	( <sup>2</sup> )	1,188	8,873	1,687
	California.....	19	4	237	1,051	149	280	611	2,363	3,846	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3694	Engine electrical equipment, total...	166	98	39,840	201,949	30,915	60,212	140,618	366,626	631,868	9,102	46,349	339,251	44,450
	New England.....	14	11	2,410	11,940	1,805	3,539	7,266	17,817	37,159	( <sup>2</sup> )	2,376	13,692	2,219
	Middle Atlantic....	36	23	7,847	34,930	5,772	11,852	22,269	57,376	88,544	1,130	10,718	63,774	7,180
	New York.....	19	14	6,328	29,009	4,460	9,184	17,727	46,519	68,723	855	7,012	41,870	6,412
	New Jersey.....	8	4	515	1,780	468	971	1,338	3,246	5,992	( <sup>2</sup> )	2,051	10,864	519
	Pennsylvania.....	9	5	1,004	4,141	844	1,697	3,204	7,611	13,829	( <sup>2</sup> )	1,654	11,039	249
	East North Central	67	46	28,132	149,195	22,122	42,409	106,479	280,109	483,474	7,025	31,707	253,641	34,402
	Ohio.....	15	10	8,439	46,085	6,072	11,464	28,523	97,921	164,582	2,370	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Michigan.....	17	11	2,824	15,802	2,176	4,548	11,238	32,532	75,019	1,209	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Wisconsin.....	6	4	2,031	9,177	1,708	3,076	7,163	10,651	21,211	( <sup>2</sup> )	957	4,189	988
	West North Central	11	6	632	2,527	548	1,088	2,153	5,168	10,908	( <sup>2</sup> )	277	1,465	417
	Missouri.....	5	2	279	967	239	495	845	1,220	3,306	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South.....	14	4	343	1,131	291	556	832	2,155	4,803	( <sup>2</sup> )	429	1,542	155
	West.....	24	8	476	2,226	377	768	1,619	4,001	6,980	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	20	8	462	2,179	364	742	1,576	3,881	6,780	( <sup>2</sup> )	839	5,134	77
3699	Electrical products, nec, total.....	259	99	10,259	39,342	8,182	15,776	26,342	73,581	165,388	1,364	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New England.....	21	9	1,202	4,342	969	1,858	3,007	8,584	17,905	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Rhode Island....	4	4	898	3,318	720	1,368	2,335	6,602	12,545	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic....	100	41	3,430	12,750	2,846	5,576	9,276	25,703	56,017	518	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New York.....	70	29	2,524	8,728	2,080	4,106	6,211	15,330	40,071	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	North Central and South.....	102	40	4,655	18,321	3,576	6,867	11,711	32,827	75,615	503	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Ohio.....	20	10	898	4,476	681	1,288	2,958	7,905	15,654	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Indiana.....	11	6	296	1,007	228	452	692	2,000	4,761	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Illinois.....	21	8	616	2,276	489	903	1,469	4,373	10,172	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Wisconsin.....	7	3	123	416	87	172	280	733	1,972	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Minnesota.....	7	2	173	634	137	271	379	843	1,946	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	36	9	972	3,929	791	1,475	2,348	6,467	15,851	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.  
D Withheld to avoid disclosing figures for individual companies.

Footnotes continued on next page.



Footnotes for Table 2—36C

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3691, Storage Batteries: New England—Rhode Island, 1 (1-19); Connecticut, 4 (100-249); North Central—Wisconsin, 4 (100-249); Minnesota, 5 (100-249); Iowa, 3 (20-99); Missouri, 8 (500-999); Nebraska, 1 (20-99); Kansas, 4 (500-999); South Atlantic—Maryland, 3 (1-19); District of Columbia, 1 (1-19); Virginia, 2 (20-99); West Virginia, 2 (1-19); North Carolina, 5 (100-249); Georgia, 8 (250-499); Florida, 18 (100-249); East South Central—Kentucky, 4, (20-99); Tennessee, 6 (250-499); Mississippi, 1 (1-19); West South Central—Louisiana, 2 (20-99); Oklahoma, 3 (100-249); Texas, 20 (500-999); Mountain—Colorado, 4 (100-249); Arizona, 2 (1-19); Utah, 2 (20-99); Pacific—Washington, 5 (20-99).

SIC 3692, Primary Batteries, Dry and Wet: New England—Vermont, 1 (100-249); Massachusetts, 1 (20-99); Connecticut, 2 (100-249); Middle Atlantic—New York, 5 (500-999); New Jersey, 2 (250-499); Pennsylvania, 2 (100-249); East North Central—Ohio, 5 (1,994); Illinois, 4 (1,000-2,499); Michigan, 1 (20-99); West North Central—Iowa, 1 (250-499); South Atlantic—Maryland, 2 (100-249); North Carolina, 4 (1,000-2,499); Georgia, 1 (1-19); Florida, 1 (1-19); East South Central—Tennessee, 1 (100-249); Mountain—Arizona, 1 (1-19); Pacific—California, 3 (20-99).

SIC 3693, X-Ray and Therapeutic Apparatus: New England—Massachusetts, 6 (20-99); Rhode Island, 1 (1-19); Connecticut, 3 (1-19); Middle Atlantic—New York, 20 (500-999); New Jersey, 8 (250-499); East North Central—Ohio, 5 (500-999); Indiana, 3 (1-19); Illinois, 25 (500-999); Michigan, 3 (1-19); Wisconsin, 7 (1,757); West North Central—Missouri, 3 (1-19); South Atlantic—Maryland, 2 (250-499); Florida, 1 (1-19); East South Central—Kentucky, 1, (1-19); Tennessee, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 4 (1-19); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Pacific—Washington, 1 (1-19).

SIC 3694, Engine Electrical Equipment: New England—Massachusetts, 11 (2,038); Connecticut, 3 (250-499); East North Central—Indiana, 12 (13,664); Illinois, 17 (1,174); West North Central—Minnesota, 3 (20-99); Iowa, 2 (250-499); Kansas, 1 (20-99); South Atlantic—Maryland, 2 (20-99); North Carolina, 1 (1-19); Florida, 3 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 1 (1-19); West South Central—Arkansas, 1 (1-19); Oklahoma, 1 (20-99); Texas, 4 (100-249); Mountain—Colorado, 2 (1-19); Arizona, 1 (1-19); Pacific—Washington, 1 (1-19).

SIC 3699, Electrical Products, NEC: New England—Maine, 1 (20-99); Vermont, 1 (1-19); Massachusetts, 8 (20-99); Connecticut, 7 (100-249); Middle Atlantic—New Jersey, 19 (500-999); Pennsylvania, 11 (250-499); East North Central—Michigan, 11 (250-499); West North Central—Iowa, 1 (1-19); Missouri, 3 (500-999); Nebraska, 2 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (1-19); Virginia, 1 (20-99); West Virginia, 1 (1-19); Georgia, 1 (20-99); Florida, 3 (1,048); East South Central—Tennessee, 3 (20-99); West South Central—Arkansas, 1 (1-19); Oklahoma, 1 (1-19); Texas, 6 (100-249); Mountain—Arizona, 1 (1-19); Pacific—Washington, 1 (1-19); California, 34 (500-999).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>The State, region, or division not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

Table 3.—Detailed Statistics for the United States: 1958

Item	Storage batteries (SIC 3691)	Primary batteries dry and wet (SIC 3692)	X-ray and therapeutic apparatus (SIC 3693)	Engine electrical equipment (SIC 3694)	Electrical products, nec (SIC 3699)
Primary product specialization ratio <sup>1</sup> .....	99	99	84	87	91
Coverage ratio <sup>2</sup> .....	100	98	82	84	54
Number of establishments, total.....	276	42	126	166	259
With 1-19 employees.....	170	13	93	68	160
With 20-99 employees.....	67	8	24	47	79
With 100 employees or more.....	39	21	9	51	20
Proprietors and working partners.....Number....	135	5	43	43	115
All employees:					
Number (average for the year).....	14,924	8,096	5,258	39,840	10,259
Payroll.....\$1,000....	76,961	34,025	30,686	201,949	39,342
Production workers:					
Number (average for the year).....	11,787	6,498	3,012	30,915	8,182
March.....	11,468	6,604	3,159	30,332	7,613
May.....	11,365	6,409	3,104	28,500	7,802
August.....	11,990	6,190	2,909	29,384	8,475
November.....	12,348	6,786	2,913	35,458	8,909
Man-hours.....1,000....	23,205	13,236	5,856	60,212	15,776
January-March.....do....	5,559	3,393	1,574	15,305	3,621
April-June.....do....	5,480	3,383	1,546	13,799	3,803
July-September.....do....	5,779	2,947	1,277	14,565	3,783
October-December.....do....	6,287	3,511	1,401	16,453	4,474
Wages.....\$1,000....	55,459	24,455	14,308	140,618	26,342
Cost of materials, etc., total.....do....	211,794	59,518	35,743	260,407	89,733
Materials, parts, containers, and supplies consumed.....do....	202,082	54,987	22,306	231,271	76,336
Cost of resales.....do....	2,050	2,510	12,506	23,906	11,894
Fuels consumed.....do....	1,955	483	147	1,671	418
Electricity purchased.....do....	4,071	470	451	2,824	805
Contract work.....do....	1,636	<sup>r</sup> 1,068	333	<sup>r</sup> 735	<sup>r</sup> 280
Value of shipments (including resales), total.....do....	368,993	138,215	95,090	631,868	165,388
Value of resales.....do....	2,401	3,285	18,417	41,676	14,364
Value added by manufacture, adjusted.....do....	150,061	75,431	58,436	366,626	73,581
Manufacturers' inventories:					
Beginning of year, total.....do....	62,209	25,047	24,237	91,660	21,968
Finished products.....do....	23,824	10,518	7,960	26,800	9,135
Work-in-process.....do....	21,792	6,944	8,220	36,874	2,873
Materials, supplies, fuel, etc.....do....	16,593	7,585	8,057	27,986	9,960
End of year, total.....do....	52,112	22,058	21,918	83,400	22,397
Finished products.....do....	16,265	7,222	7,365	23,810	6,500
Work-in-process.....do....	22,213	6,974	7,904	35,029	3,434
Materials, supplies, fuel, etc.....do....	13,634	7,862	6,649	24,561	12,464
Expenditures for plant and equipment, total.....do....	7,562	2,354	1,425	9,659	1,971
New, total.....do....	7,330	2,343	1,371	9,102	1,364
New structures and additions to plant.....do....	1,408	921	567	1,654	271
New machinery and equipment.....do....	5,922	1,422	804	7,448	1,093
Used plant and equipment.....do....	232	11	54	557	607

Note: Detailed figures may not add to totals because of independent rounding.

<sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									1,000- 2,499 employees	2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees			
3691	Storage batteries: Number of establishments..... All employees: Number..... Payroll.....\$1,000.. Value added, adjusted..do.... Value of shipments.....do.... Capital expend., new...do....	276 14,924 76,961 150,061 368,993 7,330	103 217 870 2,159 5,385 ( <sup>1</sup> )	37 245 1,059 2,267 5,782 ( <sup>1</sup> )	30 403 1,872 3,597 8,040 ( <sup>1</sup> )	34 1,066 4,877 10,631 27,185 1,253	33 2,355 10,861 28,692 72,715 1,143	25 3,434 17,218 42,711 105,670 1,629	9 7,204 40,204 60,004 144,216 3,019	3 (D) (D) (D) (D) (D) (D)	2 (D) (D) (D) (D) (D) (D)	.. ... ... ... ... ...	
3692	Primary batteries, dry and wet: Number of establishments..... All employees: Number..... Payroll.....\$1,000.. Value added, adjusted..do.... Value of shipments.....do.... Capital expend., new...do....	42 8,096 34,025 75,431 138,215 2,343	6 14 66 126 292 ( <sup>1</sup> )	5 26 96 188 405 ( <sup>1</sup> )	2 79 378 854 1,612 ( <sup>1</sup> )	2 (D) (D) (D) (D) (D)	6 438 1,484 3,163 5,538 ( <sup>1</sup> )	10 1,573 6,354 16,543 29,323 ( <sup>1</sup> )	7 2,484 10,056 27,386 48,647 1,366	3 3,482 15,591 27,171 52,398 578	1 (D) (D) (D) (D) (D) (D)	.. ... ... ... ... ...	
3693	X-ray and therapeutic apparatus: Number of establishments..... All employees: Number..... Payroll.....\$1,000.. Value added, adjusted..do.... Value of shipments.....do.... Capital expend., new...do....	126 5,258 30,686 58,436 95,090 1,371	63 122 473 1,074 2,066 ( <sup>1</sup> )	18 127 636 1,448 2,176 ( <sup>1</sup> )	12 165 765 1,414 2,430 ( <sup>1</sup> )	17 542 2,662 4,844 8,246 ( <sup>1</sup> )	7 489 2,423 4,731 8,283 ( <sup>1</sup> )	5 3,813 23,727 44,925 71,889 920	2 (D) (D) (D) (D) (D) (D)	1 (D) (D) (D) (D) (D) (D)	1 (D) (D) (D) (D) (D) (D)	.. ... ... ... ... ...	
3694	Engine electrical equipment: Number of establishments..... All employees: Number..... Payroll.....\$1,000.. Value added, adjusted..do.... Value of shipments.....do.... Capital expend., new...do....	166 39,840 201,949 366,626 631,868 9,102	28 57 221 686 1,093 ( <sup>1</sup> )	14 96 405 708 1,788 ( <sup>1</sup> )	26 360 1,348 2,604 5,075 ( <sup>1</sup> )	32 1,102 4,716 9,416 16,311 ( <sup>1</sup> )	15 1,079 4,449 8,159 17,454 ( <sup>1</sup> )	27 4,288 17,482 32,016 67,535 705	13 4,273 18,112 31,652 59,218 839	6 6,652 34,760 63,634 125,093 1,729	1 (D) (D) (D) (D) (D) (D)	4 21,933 120,456 217,751 338,301 5,020	
3699	Electrical products, nec: Number of establishments..... All employees: Number..... Payroll.....\$1,000.. Value added, adjusted..do.... Value of shipments.....do.... Capital expend., new...do....	259 10,259 39,342 73,581 165,388 1,364	91 183 606 1,508 3,619 ( <sup>1</sup> )	29 203 842 1,616 3,293 ( <sup>1</sup> )	40 577 2,267 2,181 11,354 ( <sup>1</sup> )	54 1,676 6,091 11,274 27,259 ( <sup>1</sup> )	25 1,718 6,197 12,649 24,459 ( <sup>1</sup> )	12 2,060 8,247 17,543 36,647 ( <sup>1</sup> )	5 1,569 6,603 12,294 25,744 ( <sup>1</sup> )	2 2,273 8,489 14,516 33,013 ( <sup>1</sup> )	1 (D) (D) (D) (D) (D) (D)	.. ... ... ... ... ...	

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3691	Storage batteries.....1958.. 1954..	368,993 343,668	360,359 335,683	2,131 1,218	6,503 6,767	99 100	361,489 336,118	360,359 335,683	1,130 435	100 100
3692	Primary batteries, dry and wet.1958.. 1954..	138,215 123,803	132,525 115,963	1,255 2,178	4,435 5,662	99 98	135,679 117,926	132,525 115,963	3,154 1,963	98 98
3693	X-ray and therapeutic apparatus.....1958.. 1954..	95,090 97,043	59,948 62,082	11,564 14,582	23,578 20,379	84 81	72,969 68,000	59,948 62,082	13,021 5,918	82 91
3694	Engine electrical equipment....1958.. 1954..	631,868 612,344	507,535 492,442	75,301 84,340	49,032 35,562	87 85	604,271 564,325	507,535 492,442	96,736 71,883	84 87
3699	Electrical products, nec.....1958..	165,388	134,736	12,958	17,694	91	249,231	134,736	<sup>a</sup> 114,495	<sup>a</sup> 54

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Included in this industry are appliance wire and cord and flexible cord sets which are also primary to Industry 3357, Drawing and Insulating Non-ferrous Wire. A coverage ratio computed on the basis of including both industries to which appliance wire and cord and flexible cord sets are primary would total 81 percent; 54 percent by Industry 3699, and 27 percent by Industry 3357. The remaining 19 percent was shipped by establishments in other industries.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Storage batteries industry	Storage batteries (SIC 3691)	Other industries	All industries	Prod. class code	Engine electrical equipment industry	Engine electrical equipment (SIC 3694)	Other industries	All industries
	Total shipments and receipts of the industry.....	368,993	xxx	xxx		Total shipments and receipts of the industry.....	631,868	xxx	xxx
36911	Primary products.....	360,359	1,130	361,489		Primary products.....	507,535	96,736	604,271
36912	Storage batteries, SLI type.....	360,359	1,130	278,960	36942	Battery charging generators.....	93,446	<sup>a</sup> 11,484	104,930
	Storage batteries (other than SLI type) including parts for storage batteries, all types.....				36943	Cranking motors.....	78,671	3,661	82,332
36910	Storage batteries, nsk.....				36945	Other complete electrical equipment for internal combustion engines.....	<sup>r</sup> 114,557	<sup>4</sup> 20,186	<sup>r</sup> 134,743
	Secondary products.....	2,131	xxx	xxx	36946	Components and parts for engine electrical equipment.....	92,170	<sup>5</sup> 11,155	103,325
	Miscellaneous receipts.....	6,503	xxx	xxx	36941	Ignition harness and cable sets...	<sup>r</sup> 128,691	<sup>e</sup> 50,250	45,303 123,064 <sup>r</sup> 10,574
	Resales.....	2,401	xxx	xxx	36944	Spark plugs.....			
	Scrap and salable refuse and miscellaneous repair work.....	3,622	xxx	xxx	36940	Engine electrical equipment, nsk..			
	Other miscellaneous receipts.....	480	xxx	xxx		Secondary products.....	75,301	xxx	xxx
					35990	Carburetors, pistons, and other machine shop products.....	5,154	xxx	xxx
					36240	Carbon and graphite products.....	2,903	xxx	xxx
						Other.....	767,244	xxx	xxx
						Miscellaneous receipts.....	49,032	xxx	xxx
						Resales.....	41,676	xxx	xxx
3692	Primary batteries, dry and wet.....	138,215	xxx	xxx		Scrap and salable refuse and miscellaneous repair work.....	6,052	xxx	xxx
	Secondary products.....	132,525	3,154	135,679		Other miscellaneous receipts.....	1,304	xxx	xxx
	Miscellaneous receipts.....	1,255	xxx	xxx	Prod. class code	Electrical products, nec, industry	Electrical products, nec (SIC 3699)	Other industries	All industries
	Resales.....	4,435	xxx	xxx		Total shipments and receipts of the industry.....	165,388	xxx	xxx
	Other miscellaneous receipts.....	3,285	xxx	xxx	36992	Primary products.....	134,736	114,495	249,231
		1,150	xxx	xxx	36996	Lamp bulb components and other electrical products.....	79,730	<sup>a</sup> 36,116	115,846
					36990	Appliance wire and cord and flexible cord sets.....	48,976	<sup>a</sup> 78,093	<sup>10</sup> 127,069
Prod. class code	X-ray and therapeutic apparatus industry	X-ray and therapeutic apparatus (SIC 3693)	Other industries	All industries		Electrical products, nec, nsk.....	6,030	286	6,316
	Total shipments and receipts of the industry.....	95,090	xxx	xxx		Secondary products.....	12,958	xxx	xxx
3693	X-ray and therapeutic apparatus.....	59,948	<sup>1</sup> 13,021	72,969	36430	Current-carrying wiring devices... Other.....	2,985 9,973	xxx xxx	xxx xxx
	Secondary products.....	<sup>2</sup> 11,564	xxx	xxx		Miscellaneous receipts.....	17,694	xxx	xxx
	Miscellaneous receipts.....	23,578	xxx	xxx		Contract and commission work.....	2,623	xxx	xxx
	Resales.....	18,417	xxx	xxx		Resales.....	14,364	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	4,893	xxx	xxx		Other miscellaneous receipts.....	707	xxx	xxx
	Other miscellaneous receipts.....	268	xxx	xxx					

<sup>r</sup>Revised.

<sup>1</sup>Includes the following industries which total \$2 million or more each but exact figures are withheld to avoid disclosing individual company figures: 3611, Electric Measuring Instruments and 3673, Electron Tubes, Transmitting.

<sup>2</sup>Includes the following product class which totals over \$2 million, but exact figure is withheld to avoid disclosing individual company figures: 38611, Still Picture Equipment.

<sup>3</sup>Includes the following industries which total \$2 million or more each but the exact figures are withheld to avoid disclosing individual company figures: 3621, Motors and Generators, and 3717, Motor Vehicles and Parts.

<sup>4</sup>Includes the following industries which total \$2 million or more each but the exact figures are withheld to avoid disclosing individual company figures: 3599, Machine Shops; 3621, Motors and Generators; and 3622, Industrial Controls.

<sup>5</sup>Includes the following industries which total \$2 million or more each but the exact figures are withheld to avoid disclosing individual company figures: 3599, Machine Shops, and 3629, Electric Industrial Goods, NEC.

<sup>6</sup>Includes the following industry which totals over \$2 million more but the exact figure is withheld to avoid disclosing individual company figures: 3717, Motor Vehicles and Parts.

<sup>7</sup>Includes the following product classes which total \$2 million or more each but the exact figures are withheld to avoid disclosing individual company figures: 35197, Parts and accessories for internal combustion engines; 36211, Fractional horsepower motors; 36430, Current-carrying wiring devices, including lightning rods; 37175, Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers, and 38214, Motor vehicle instruments, except electric.

<sup>8</sup>Includes \$3,187 thousand shipped by Industry 3662, Radio, TV, Communication Goods. In addition, the following industries had shipments which totaled \$2 million or more each, but the exact figures are withheld to avoid disclosing individual company figures: 3357, Nonferrous Wire Drawing, NEC; 3634, Electric Housewares, and Fans; 3641, Electric Lamps; and 3679, Electric Components, NEC.

<sup>9</sup>Includes \$66,199 thousand shipped by Industry 3357, Nonferrous Wire Drawing, and \$8,269 thousand shipped by Industry 3643, Current-Carrying Wiring.

<sup>10</sup>Includes the total for product class 33576, Appliance wire and cord and flexible cord sets, which is primary to Industry 3357.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers							
			1958		1954					
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)				
3691---	Storage batteries.....		xxx	361,489	xxx	336,118				
36911--	Storage batteries, SLI type.....		xxx	278,960	xxx	258,840				
	Motor vehicle type storage batteries, automobile, truck, farm tractor, and bus (including tractors, aircraft, locomotive, and marine) starting, lighting, and ignition types, complete units:									
	Automotive type <sup>1</sup> :									
	For original equipment:									
3691112	6 volt.....	1,000 units.	413	3,311	30,351	239,427				
3691115	12 volt.....	..do.....	5,450	48,798						
	For replacement:									
3691122	6 volt.....	..do.....	17,450	128,226						
3691125	12 volt.....	..do.....	7,419	74,327						
	Heavy duty transport, motor coach and bus, and Diesel starting batteries (excluding marine):									
	For original equipment:									
3691132	6 volt and 12 volt:				354	7,977				
3691135	Quantity reported.....	..do.....	76	1,657						
	Quantity not reported.....	.....	xxx	180						
	For replacement:									
3691142	6 volt.....	1,000 units.	273	3,983						
3691145	12 volt.....	..do.....	110	3,106						
3691151	Aircraft.....	..do.....	73	2,649	xxx	3,986				
3691171	Marine.....	..do.....	35	4,745	xxx	1,198				
3691198	Other starting, lighting, and ignition type batteries (including motorcycle).....	..do.....	xxx	7,978	xxx	6,252				
36912--	Storage batteries other than SLI type.....		xxx	78,511	xxx	77,278				
	Motive power type:									
3691211	Industrial truck type.....		xxx	18,074	xxx	18,833				
3691219	Other motive power type storage batteries (including mining, locomotive, and railway).....		xxx	888	xxx	2,038				
3691241	Farm and emergency lighting storage batteries.....		xxx	( <sup>2</sup> )	xxx	1,042				
3691251	Communication storage batteries (including radio station, telephone, and telegraph and railroad signalling).....		xxx	15,626	xxx	10,801				
3691261	Railway Diesel starting batteries.....		xxx	( <sup>2</sup> )	xxx	4,497				
3691271	Railway air-conditioning and car lighting batteries.....		xxx	3,660	xxx	4,839				
3691291	Parts and supplies for storage batteries.....		xxx	10,767	xxx	11,978				
3691298	Other storage batteries.....		xxx	229,496	xxx	23,250				
3691000	Storage batteries, nsk.....		xxx	4,018	xxx	(NA)				
Total shipments including interplant transfers										
			1958		1954					
			Quantity		Quantity					
			Thousand cells	Thousand units	Thousand cells	Thousand units				
				Value (\$1,000)		Value (\$1,000)				
3692---	Primary batteries (dry and wet), total <sup>3</sup> .....	xxx	xxx	135,679	xxx	xxx	117,926			
3692011	General purpose (6 inch), 1.5 volt dry cells, single and multiple unit (except mercury).....	10,530	8,355	5,953	12,917	9,723	4,801			
	Flashlight (except mercury):									
3692021	Standard.....	xxx	363,513	34,311	xxx	354,330	23,348			
3692024	Medium and penlight.....	xxx	89,241	7,259	xxx	91,403	4,602			
3692031	Railroad lantern type (except mercury).....	54,139	12,758	7,784	33,562	8,438	4,079			
3692042	Hearing aid A and B (except mercury).....	24,311	9,424	1,454	122,449	40,346	9,962			
	A, B, and C (other than hearing aid) (except mercury):									
3692051	Portable radio types.....	339,412	22,586	15,732	348,543	12,419	12,380			
3692054	Farm radio types (including farm pack and other farm types).....	49,803	911	3,586	123,439	1,921	7,436			
3692059	Other types.....	73,098	4,431	2,566	29,453	1,521	1,663			
3692062	Other dry cell primary batteries (except military type), including mercury batteries, all types.....	643,124	73,463	34,095	(NA)	(NA)	6,238			
3692074	Dry cell primary batteries (military type) (except mercury).....				xxx	xxx	32,847			
3692081	Wet cell primary batteries.....				(NA)	(NA)	6,252	9,832	1,163	3,345
3692085	Parts and supplies for primary batteries.....				xxx	xxx	14,807	xxx	xxx	7,225
3692000	Primary batteries, nsk.....	xxx	xxx	1,880	xxx	xxx	...			

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers					
			1958		1954			
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)		
3693---	X-ray and therapeutic apparatus.....		xxx	72,969	xxx	66,839		
3693012	Medical X-ray and gamma-ray equipment: Diagnostic X-ray equipment.....	No. of units	4,546	24,660	}	xxx <sup>4</sup> 529,584		
3693013	Therapeutic equipment: X-ray.....		}	xxx			2,894	
3693014	Isotope.....							
3693021	Dental X-ray equipment (including tubes): Complete units.....	No. of units	}	xxx	3,349	2,631		
3693027	Parts and attachments (sold separately).....	..do.....						
3693032	Industrial X-ray and radiation equipment (except diffraction): Radiographic and fluoroscopic (X-ray and gamma).....		xxx	4,668	}	xxx		
3693036	Irradiation equipment (X-ray, gamma, and beta).....		xxx	987				
3693041	X-ray tubes (except dental): Diagnostic.....	No. of units	xxx	5,704	}	29,564		
3693047	Therapeutic and industrial.....	..do.....	xxx	2,007				
3693052	X-ray valves (rectifiers).....	..do.....	xxx	1,133	22,026	1,288		
3693061	Medical, dental, and industrial X-ray and gamma-ray accessories (excluding radiation detectors).....		xxx	1,530	}	xxx		
3693079	All other X-ray equipment, including X-ray diffraction.....		xxx	7,931				
3693081	Electro-therapeutic apparatus (including electro diathermic).....		xxx	5,583				
3693091	Electromedical apparatus (including cardiographs).....		xxx	8,779	xxx	8,368		
3693000	X-ray and therapeutic apparatus, nsk.....		xxx	3,744	xxx	1,908		
3694---	Electrical equipment for internal combustion engines, total.....		xxx	604,271	xxx	588,171		
36941--	Ignition harness and cable sets.....		xxx	45,303	xxx	53,943		
3694115	Ignition harness sets: Aircraft type.....		xxx	9,580	xxx	10,810		
3694111	Automotive type.....		}	xxx	26,663	{		
3694119	Other.....							
3694151	Cable sets (automotive and aircraft type).....		xxx	7,923	xxx	9,059		
3694100	Ignition harness and cable sets, nsk.....		xxx	1,137	xxx	1,146		
36942--	Battery charging generators.....		xxx	104,930	xxx	105,343		
	Battery charging generators for internal combustion engines: Passenger car and light truck type:							
3694211	6 volt.....	1,000 units.	321	2,672	}	6,878		
3694215	12 volt.....	..do.....	5,345	53,574				
3694221	Heavy-duty truck and bus type - 12 volt and higher.....	..do.....	581	10,405				
3694225	Aircraft type.....		(NA)	1,870	(NA)	4,994		
3694229	Other <sup>e</sup> .....		xxx	6,044	xxx	7,619		
	Regulators for battery charging generators: Passenger car and light truck type.....	1,000 units.	10,237	24,781	9,773	22,042		
3694249	Other types.....		xxx	5,584	xxx	4,491		
36943--	Cranking motors.....		xxx	82,332	xxx	80,701		
3694311	Passenger car and light truck type.....	1,000 units.	5,735	63,001	6,569	63,712		
3694331	Heavy-duty truck and bus type.....	..do.....	}	605	12,341	632		
3694351	Farm tractor type.....	..do.....						
3694371	Other cranking motors.....		xxx	6,990	xxx	6,183		
36944--	Spark plugs.....		xxx	123,064	xxx	113,631		
3694411	Automotive type.....		}	xxx	123,064	xxx		
3694431	Aircraft type.....							
36945--	Other complete electrical equipment for internal combustion engines.....		xxx	134,743	xxx	158,500		
	Ignition coils: For automotive vehicles (trucks, buses, and passenger cars).....	1,000 units.	8,547	15,023	10,495	16,662		
3694519	Other ignition coils.....	..do.....	3,780	5,853	6,772	8,823		
	Distributors: Passenger car and light truck type.....	..do.....	5,358	28,316	6,812	29,877		
3694539	Other types.....	..do.....	451	3,122	597	5,433		
	Ignition magnetos: Farm tractor type.....		(NA)	1,173	{	(NA)		
3694551	Aircraft type.....		}	xxx			14,112	
3694559	Other ignition magnetos.....							
3694561	Other ignition equipment.....		xxx	7,327	xxx	29,580		
	Switches specifically designed for use in vehicles and aircraft (all types: starting, lighting, ignition, etc.): Automotive vehicles (trucks, buses, and passenger cars).....	1,000 units.	112,635	38,901	87,744	31,403		
3694581	Aircraft.....		xxx	4,721	xxx	5,720		
3694589	Other vehicle switches.....		xxx	2,316	xxx	5,795		
3694598	Other complete electrical equipment units for internal combustion engines and vehicles.....		xxx	13,879	xxx	9,755		

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3694---	Electrical equipment for internal combustion engines--Continued					
36940--	Components and parts for engine electrical equipment.....		xxx	103,325	xxx	76,053
3694011	Armatures, field coils, and drive end housing for cranking motors.....	1,000 units.	xxx	16,395	1,501	7,697
3694021	Armatures for battery charging generators.....				xxx	4,498
	Parts for ignition distributors:					
3694031	Distributor heads and rotors.....		xxx	3,706	xxx	4,372
	Breaker point sets:					
3694051	Contact arms.....	1,000 units.	49,726	15,326	39,637	9,722
3694055	Contact supports and screws.....	..do.....	34,926	8,844	34,698	7,266
3694071	Condensers.....	..do.....	39,934	10,596	27,676	6,813
3694098	Other component parts for engine electrical equipment, including field coils for battery charging generators.....		xxx	48,458	xxx	35,685
3694000	Engine electrical equipment, nsk.....		xxx	10,574	xxx	(NA)
3699---	Electrical machinery, equipment, and supplies, total.....		xxx	249,231	xxx	189,523
36992--	Lamp bulb components (except glass blanks) and other electrical products....		xxx	115,846	xxx	63,821
3699211	Electric lamp (bulb) bases.....		xxx	18,204	xxx	19,990
3699221	Other electric lamp (bulb) components.....		xxx	33,961	xxx	(7)
3699251	Electric gongs, chimes, and bells.....		xxx	8,727	xxx	(7)
3699271	Christmas tree lighting outfits.....		xxx	25,354	xxx	20,626
3699298	Other electrical products, nec.....		xxx	29,600	xxx	23,205
33576--	Appliance wire and cord and flexible cord sets.....		xxx	127,069	xxx	108,609
36996--						
33576--	Made by Industry 3357 (drawing and insulating of nonferrous wire).....		xxx	66,199	(NA)	(NA)
36996--	Made by Industry 3699 (electrical machinery, equipment, and supplies, nec), and other industries.....		xxx	60,870	(NA)	(NA)
3357611	Flexible cord sets.....		xxx	48,169	xxx	40,609
3699611						
3357611	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	20,881	(NA)	(NA)
3699611	Made in electrical products, nec, (Industry 3699) and other industries..		xxx	27,288	(NA)	(NA)
	Appliance wire and cord:					
3357621	Fixture wire (including heat resistant).....		xxx	8,405	xxx	10,551
3699621						
3357621	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	6,549	(NA)	(NA)
3699621	Made in electrical products, nec, (Industry 3699) and other industries		xxx	1,856	(NA)	(NA)
	Flexible cord (including heater cord):					
3357622	Rubber insulated.....		xxx	16,205	xxx	22,643
3699622						
3357622	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	14,825	(NA)	(NA)
3699622	Made in electrical products, nec, (Industry 3699) and other industries		xxx	1,380	(NA)	(NA)
3357625	Thermoplastic insulated.....		xxx	10,925	xxx	10,515
3699625						
3357625	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	9,829	(NA)	(NA)
3699625	Made in electrical products, nec, (Industry 3699) and other industries		xxx	1,096	(NA)	(NA)
3357629	Other appliance wire and cord.....		xxx	36,173	xxx	22,068
3699629						
3357629	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	11,481	(NA)	(NA)
3699629	Made in electrical products, nec, (Industry 3699) and other industries		xxx	24,692	(NA)	(NA)
3357600	Appliance wire and cord and flexible cord sets, nsk.....		xxx	7,192	xxx	2,223
3699600						
3357600	Made in nonferrous wire drawing, etc. (Industry 3357).....		xxx	2,634	(NA)	(NA)
3699600	Made in electrical products, nec, (Industry 3699) and other industries..		xxx	4,558	(NA)	(NA)
3699000	Electrical products, nec, nsk.....		xxx	6,316	xxx	17,093

NA Not available. <sup>†</sup>Revised.<sup>1</sup>All types designed primarily to fit passenger cars, regardless of application. Many of these batteries are used in commercial vehicles and light trucks.<sup>2</sup>For 1958, farm and emergency lighting storage batteries (code 3691241) and railroad Diesel starting batteries (code 3691261), were included with other storage batteries (code 3691298).<sup>3</sup>Data also shown for 1958 in Current Industrial Reports, BDSAF-371A, Dry Cell Batteries.<sup>4</sup>For 1954, includes an undetermined amount of dental X-ray equipment, parts, and attachments, and dental X-ray components.<sup>5</sup>Not directly comparable to 1958 data. In 1954, an undetermined amount of industrial X-ray components were included with medical X-ray and gamma-ray equipment.<sup>6</sup>Includes farm tractor, marine, stationary, and construction machinery types.<sup>7</sup>Included with other electrical products, nec, code 3699298.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	
<u>Storage batteries, SLI type (36911):</u>			<u>X-ray and therapeutic apparatus (36950):</u>	1958 <sup>1</sup>	<u>Lamp bulb components and other electrical products (36992):</u>	1958 <sup>1</sup>	
United States, total:			United States, total.....	72,969	United States, total.....	115,846	
1958.....	278,960		Middle Atlantic.....	13,286	New England.....	11,703	
1955.....	285,019		New York.....	7,241	Massachusetts.....	1,447	
1954.....	258,840		New Jersey.....	2,840	Middle Atlantic.....	45,280	
1953.....	284,830		Pennsylvania.....	3,205	New York.....	15,024	
1952.....	290,643		East North Central.....	40,736	East North Central.....	26,071	
1951.....	300,160		Illinois.....	8,557	Ohio.....	20,816	
1950.....	259,675		All other regions.....	18,947	Illinois.....	2,260	
1949.....	221,906		Massachusetts.....	5,525	Michigan.....	1,374	
1947.....	249,328		California.....	3,359	All other regions.....	32,792	
	1958 <sup>1</sup>	1954	<u>Battery charging generators (36942):</u>		California.....	2,915	
Northeast.....	69,270	64,396	United States, total.....	140,930	<u>Appliance wire and cord and flexible cord sets (36996):</u>	Value of shipments	
Massachusetts.....	6,659	( <sup>2</sup> )	Northeast.....	5,332	United States, total:		
New York.....	12,141	11,126	North Central.....	95,269	1958.....	127,069	
Pennsylvania.....	28,009	23,633	South and West.....	4,329	1957.....	124,096	
East North Central.....	79,675	91,439	<u>Other complete electrical equipment for internal combustion engines (36945):</u>		1956.....	134,146	
Ohio.....	17,540	22,671	United States, total.....	<sup>r</sup> 134,743	1955.....	123,388	
Illinois.....	13,795	10,958	Northeast.....	47,110	1954.....	108,609	
West North Central.....	27,864	17,709	Massachusetts.....	21,298		1958 <sup>1</sup>	1954
Minnesota.....	6,588	6,862	New York.....	16,845	New England.....	56,343	48,003
Kansas.....	15,596	6,538	Pennsylvania.....	5,144	Rhode Island.....	26,278	22,836
South.....	56,905	30,765	All other regions.....	<sup>r</sup> 87,633	Connecticut.....	15,910	14,817
Georgia.....	14,349	13,976	Ohio.....	16,592	Middle Atlantic.....	22,992	21,939
Florida.....	3,517	( <sup>2</sup> )	Illinois.....	5,362	New York.....	17,117	11,393
Tennessee.....	7,607	8,511	Michigan.....	13,283	New Jersey.....	4,011	8,888
Texas.....	18,492	( <sup>2</sup> )	Wisconsin.....	5,876	Pennsylvania.....	1,864	1,658
West.....	45,246	54,531	California.....	2,397	East North Central.....	30,237	34,983
Colorado.....	3,365	( <sup>2</sup> )	<u>Components and parts for engine electrical equipment (36946):</u>		Ohio.....	6,083	6,601
Oregon.....	3,817	4,157	United States, total.....	103,325	Indiana.....	8,804	14,979
California.....	35,808	26,724	Northeast.....	29,500	Illinois.....	11,627	9,427
<u>Storage batteries (other than SLI type), including parts for storage batteries, all types (36912):</u>	Value of shipments		Massachusetts.....	4,341	West North Central.....	3,223	( <sup>3</sup> )
United States, total.....	1958 <sup>1</sup>		New York.....	19,090	South Atlantic.....	1,558	( <sup>3</sup> )
Northeast.....	78,511		All other regions.....	73,825	Pacific.....	12,716	2,503
Massachusetts.....	45,130		Illinois.....	15,479	California.....	12,716	2,503
North Central.....	1,629		Missouri.....	1,044			
South.....	29,367						
West.....	1,151						
California.....	2,863						
	2,775						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>r</sup>Revised.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 36911, Connecticut, New Jersey, Indiana, Michigan, Wisconsin, Missouri, Nebraska, Virginia, North Carolina, Kentucky, Oklahoma, and Utah; 36912, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, and Missouri; 36930, Massachusetts, Connecticut, Ohio, Wisconsin, and Maryland; 36942, Connecticut, New York, Ohio, Indiana, Illinois, Michigan, Wisconsin, Kansas, and Mississippi; 36945, Connecticut, New Jersey, Indiana, Illinois, and Kentucky; 36946, Connecticut, New Jersey, Ohio, Indiana, Michigan, Wisconsin, Missouri, and Kentucky; 36992, Rhode Island, Connecticut, New Jersey, Pennsylvania, Indiana, Missouri, Texas, and California; 36996, Massachusetts, Michigan, and Missouri.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



# MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT AND SUPPLIES

36E-15

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 3691—STORAGE BATTERIES						
	Material, parts, containers and supplies, total.....		xxx	202,082	xxx	208,244
335971	Antimonial lead.....	Short tons...	169,743	50,679	171,035	51,706
285271	Litharge.....	do.....	95,204	24,720	96,246	29,018
333213	Refined unalloyed lead.....	do.....	83,065	20,671	89,685	25,050
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	98,725	xxx	102,470
973000	Materials, parts, containers and supplies, nsk.....		xxx	7,287	xxx	...
INDUSTRY 3692—PRIMARY BATTERIES, DRY AND WET						
	Material, parts, containers and supplies, total.....		xxx	54,987	xxx	57,203
361211	Carbon and graphite electrodes and other carbon and graphite products for electrical use.....		xxx	3,328	xxx	3,800
335915	Zinc and zinc-base alloy mill shapes and forms (sheet, strip, etc.).....	Short tons...	13,252	3,765	22,127	7,356
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	45,003	xxx	46,047
973000	Materials, parts, containers and supplies, nsk.....		xxx	2,891	xxx	...
INDUSTRY 3694—ENGINE ELECTRIC EQUIPMENT						
	Material, parts, containers and supplies, total.....		xxx	231,271	xxx	242,279
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons...	105,136	18,063	73,160	10,779
331212	Sheet and strip.....	do.....	100,131	14,001	113,510	14,517
331217	Wire and wire products.....	do.....	15,334	3,873	3,983	745
331213	Plates.....	do.....	22,137	4,032	40,560	4,571
331219	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	2,394	963	5,841	1,546
331225	All other alloy steel mill shapes and forms.....	do.....	1,458	497		
331231	Stainless steel mill shapes and forms.....	do.....	746	980	1,228	1,150
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction only.....	1,000 lbs.....	21,921	10,882	7,749	3,587
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.) (except insulated wire and cable).....	do.....	14,009	6,578	16,675	7,981
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate and foil.....	do.....	543	499	2,337	1,315
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	2,499	1,428	...	...
	Primary metals and scrap:					
333411	Aluminum and aluminum-base alloy refinery shapes.....	Short tons...	2,580	1,084	3,342	1,327
	Castings (rough and semifinished, received from foundry):					
332011	Iron (gray and malleable).....	do.....	11,601	2,999	12,505	2,237
336121	Copper and copper-base alloy.....	1,000 lbs.....	254	193	159	144
336111	Aluminum and aluminum-base alloy.....	do.....	1,225	1,329	1,827	1,408
359311	Ball and roller bearings.....		xxx	6,069	xxx	2,522
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	148,988	xxx	188,450
973000	Materials, parts, containers and supplies, nsk.....		xxx	8,813	xxx	...

## MANUFACTURES-INDUSTRY STATISTICS

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3691	STORAGE BATTERIES (entire industry)....	276	14,924	76,961	11,787	23,205	55,459	150,061	211,794	368,993	7,330
	Establishments with:										
	90% or more specialization.....	270	13,844	71,984	11,074	21,689	52,279	142,790	203,379	353,012	7,266
36911	Storage batteries SLI type (primary product class of estab.)..	201	11,128	55,397	9,074	17,953	43,705	114,063	174,002	296,484	5,996
	Establishments with:										
	90% or more specialization....	187	9,475	47,246	7,786	15,374	37,179	99,489	154,026	260,296	5,389
	75-89% specialization.....	7	1,086	5,479	857	1,764	4,480	9,932	12,853	23,419	( <sup>1</sup> )
36912	Storage batteries (other than SLI type) including parts for storage batteries, all types (primary product class of estab.).....	27	3,594	20,821	2,538	4,938	11,114	34,241	35,674	68,594	1,280
3693	X-RAY THERAPEUTIC APPARATUS (entire industry).....	126	5,258	30,686	3,012	5,856	14,308	58,436	35,743	95,090	1,371
	Establishments with:										
	90% or more specialization.....	108	1,933	9,488	1,445	2,742	5,953	20,204	11,878	32,164	826
3694	ENGINE ELECTRICAL EQUIPMENT (entire industry).....	166	39,840	201,949	30,915	60,212	140,618	366,626	260,407	631,868	9,102
	Establishments with:										
	90% or more specialization.....	128	27,026	139,134	21,247	40,702	98,329	263,478	173,841	441,165	6,586
	75-89% specialization.....	7	1,090	4,337	903	1,867	3,040	6,485	10,036	16,898	( <sup>1</sup> )
36941	Ignition harness and cable sets (primary product class of estab.)..	28	2,706	11,536	2,229	4,724	8,258	22,028	17,935	40,560	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	22	1,810	6,679	1,598	3,488	5,472	14,987	12,383	28,365	( <sup>1</sup> )
36942	Battery charging generators (primary product class of estab.)..	11	16,386	90,128	13,278	25,362	68,513	155,498	109,392	267,325	3,814
36945	Other complete electrical equipment for internal combustion engines (primary product class of estab.)..	44	8,849	39,356	6,577	13,197	25,996	59,448	37,047	95,704	1,302
	Establishments with:										
	90% or more specialization....	32	2,644	10,994	2,198	4,414	7,862	16,781	16,890	33,793	( <sup>1</sup> )
	75-89% specialization.....	3	762	3,026	555	1,096	1,643	4,049	4,177	8,325	( <sup>1</sup> )
36946	Components and parts for engine electrical equipment (primary product class of estab.).....	31	6,961	34,901	4,868	9,592	20,004	56,319	51,404	110,440	1,135
	Establishments with:										
	90% or more specialization....	13	495	2,011	400	812	1,337	4,956	4,957	10,075	( <sup>1</sup> )
3699	ELECTRICAL PRODUCTS, NEC (entire industry).....	259	10,259	39,342	8,182	15,776	26,342	73,581	89,733	165,388	1,364
	Establishments with:										
	90% or more specialization.....	214	7,085	27,123	5,714	10,956	18,434	52,686	70,562	125,072	1,003
	75-89% specialization.....	12	1,083	4,108	815	1,675	2,523	6,595	5,223	11,964	( <sup>1</sup> )
36992	Lamp bulb components and other electrical products (primary product class of estab.).....	93	5,778	23,733	4,593	8,780	15,962	47,149	52,553	99,818	808
	Establishments with:										
	90% or more specialization....	65	4,171	16,999	3,313	6,395	11,447	35,528	40,828	76,372	576
	75-89% specialization.....	11	460	1,887	347	620	1,113	2,875	3,969	6,766	( <sup>1</sup> )
36996	Appliance wire and cord and flexible cord sets (primary product class of estab.).....	90	3,931	13,629	3,138	6,138	8,936	21,806	33,865	57,653	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	76	2,393	8,027	1,997	3,805	5,567	12,859	25,481	40,210	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.



Table 9A.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3691--STORAGE BATTERIES							
Nonferrous foundry (except die casting.....	17	8	5	4	181	21	38	122
Nonferrous die casting.....	36	27	9	...	123	64	59	...
Heat treating and annealing.....	3	3	...	...	4	4	...	...
Machine shop.....	12	9	1	2	101	19	(D)	(D)
Tool and die shop.....	8	1	5	2	143	(D)	51	(D)
Painting, lacquering, and enameling.....	57	42	14	1	212	92	(D)	(D)
	INDUSTRY 3692--PRIMARY BATTERIES, DRY AND WET							
Machine shop.....	14	5	7	2	132	9	(D)	(D)
Stamping, blanking, and forming.....	15	9	4	2	111	16	(D)	(D)
	INDUSTRY 3693--X-RAY AND THERAPEUTIC APPARATUS							
Machine shop.....	29	12	11	6	442	33	113	296
Tool and die shop.....	10	7	2	1	68	12	(D)	(D)
Plate or structural fabrication.....	4	2	2	...	29	(D)	(D)	...
Stamping, blanking, and forming.....	16	6	7	3	163	10	52	101
Painting, lacquering, and enameling.....	14	10	1	3	102	23	(D)	(D)
	INDUSTRY 3694--ENGINE ELECTRICAL EQUIPMENT							
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)
Nonferrous die casting.....	8	2	3	3	179	(D)	(D)	152
Electroplating.....	11	5	4	2	179	12	(D)	(D)
Galvanizing and other hot dip coating.....	5	4	...	1	35	(D)	...	(D)
Heat treating and annealing.....	15	12	2	1	86	22	(D)	(D)
Automatic screw machine department.....	34	11	13	10	1,034	25	129	880
Machine shop.....	45	9	17	19	1,713	20	132	1,561
Tool and die shop.....	45	16	18	11	1,544	40	176	1,328
Stamping, blanking, and forming.....	46	12	17	17	1,534	29	165	1,340
Painting, lacquering, and enameling.....	26	19	6	1	154	30	(D)	(D)
	INDUSTRY 3699--ELECTRICAL PRODUCTS, NEC							
Machine shop.....	26	13	10	3	190	28	73	89
Stamping, blanking, and forming.....	23	6	13	4	441	13	143	285
Painting, lacquering, and enameling.....	15	5	10	...	97	7	90	...

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

D Withheld to avoid disclosing operations of individual companies.

Item	Industry				
	3691	3692	3693	3694	3699
Total number of establishments in the industry.....	276	42	126	166	259
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	216	33	109	132	186
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	80-85	90-95	90-95	90-95	75-80

## MANUFACTURES-INDUSTRY STATISTICS

Table 9B.—Value of Selected Products Shipped by Class of Customer: 1958 and 1954

Class of Customer	Shipments (including interplant transfers) of automotive type storage batteries (codes 3691112 -- 3691125)			
	1958		1954	
	Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
Shipments by all manufacturing establishments, total.....	30,732	254,662	30,705	247,404
To the United States Government.....	647	9,210	212	3,026
To export customers.....	<sup>r</sup> 664	<sup>r</sup> 4,548	276	2,935
To domestic customers:				
For original equipment purposes.....	<sup>r</sup> 5,631	<sup>r</sup> 49,109	6,692	51,406
For replacement purposes:				
Manufactures' proprietary brands:				
To jobbers and distributors.....	9,914	86,667	8,623	73,183
To retail dealers.....	1,270	14,228	1,386	12,354
To other proprietary brand customers.....	690	4,066	491	4,962
Private brands:				
To oil companies.....	3,049	86,834	3,176	99,538
To tire companies.....	2,183		2,606	
To mail-order and chain stores.....	5,746		4,515	
To motor vehicle manufactures.....	368		704	
To other private brand customers.....	570		1,754	

<sup>r</sup>Revised.



# Major Group 37—Transportation Equipment

This major group covers establishments primarily engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and horsedrawn vehicles.

The Standard Industrial Classification System (1957 edition) includes in Industry Group 372 guided missile components, not elsewhere classified, and receipts from research and development on aircraft parts, guided missile components, not elsewhere classified, and airplane and missile engines.

Certain products which are sometimes associated with or considered a part of transportation equipment are classified in other major groups in the Standard Industrial

Classification System. For example, children's vehicles, except bicycles, are classified in Major Group 39; wheel-type tractors, track-laying tractors, mining cars, and industrial trucks, tractors, trailers and stackers are in Major Group 35; ignition systems and storage batteries are in Major Group 36; and automobile stampings are classified in Major Group 34.

Railroad shops are not classified as manufacturing by the Standard Industrial Classification System and, therefore, such activities are not included in employment and other establishment totals for Major Group 37 or Industry Group 374. However, such shops were requested in both 1958 and 1954 to report the quantity and value of locomotives and railroad cars built or rebuilt. There were no new or rebuilt locomotives produced in either year in railroad shops. Data on railroad cars built or rebuilt in railroad shops for both years are included only in table 6A for Industry 3742.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted <sup>1</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	1,635,881	9,759,831	1,134,640	2,266,224	6,019,960	15,283,694	608,273
Administrative and auxiliary establishments.....	(NA)	(NA)	78,122	595,250	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments <sup>2</sup> .....	6,607	2,662	1,557,759	9,164,581	1,134,640	2,266,224	6,019,960	15,283,694	608,273
Operating manufacturing establishments (based on old SIC).....	6,256	2,538	1,495,544	8,798,215	1,093,548	2,182,549	5,805,431	14,745,080	590,734
Operating manufacturing establishments:									
1957 <sup>3</sup> .....	(NA)	(NA)	1,901,248	10,490,748	1,402,026	2,845,103	7,177,630	18,491,708	1,142,383
1956 <sup>3</sup> .....	(NA)	(NA)	1,792,676	9,706,567	1,357,987	2,793,344	6,743,150	16,633,346	1,437,361
1955 <sup>3</sup> .....	(NA)	(NA)	1,812,629	9,407,064	1,417,730	2,958,874	6,842,467	17,070,861	848,832
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	1,765,891	8,697,898	1,327,772	2,710,939	6,006,009	13,428,014	924,898
Administrative and auxiliary establishments.....	(NA)	(NA)	60,390	397,795	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	5,349	2,318	1,705,501	8,300,103	1,327,772	2,710,939	6,006,009	13,428,014	924,898
Operating manufacturing establishments:									
1953 <sup>3</sup> .....	(NA)	(NA)	1,911,706	8,986,838	1,529,924	3,154,956	6,731,078	14,534,323	709,592
1952 <sup>3</sup> .....	(NA)	(NA)	1,650,203	7,423,348	1,317,374	2,749,640	5,585,444	12,042,185	(NA)
1951 <sup>3</sup> .....	3,393	(NA)	1,468,509	6,066,748	1,199,628	2,448,100	4,672,343	9,788,928	599,519
1950 <sup>3</sup> .....	2,780	(NA)	1,218,417	4,679,459	1,005,883	2,060,313	3,656,460	8,546,828	343,428
1949 <sup>3</sup> .....	(NA)	(NA)	1,139,983	4,098,421	935,611	1,873,124	3,163,348	7,054,449	263,712
1947.....	3,703	(NA)	1,174,498	3,694,932	981,103	1,961,398	2,920,813	5,841,722	354,974
1939 <sup>4</sup> .....	2,012	(NA)	(NA)	(NA)	544,553	(NA)	867,024	1,772,573	(NA)
1937 <sup>5</sup> .....	1,958	(NA)	(NA)	(NA)	662,218	(NA)	1,028,650	1,986,497	(NA)

NA Not available.

<sup>1</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>2</sup>Figures for 1958 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, establishments primarily engaged in the manufacture of truck and bus bearings, convertible tops for automobiles, rebuilt automotive parts, and aircraft and related engine and power take-off gears, were excluded from these data. Establishments primarily engaged in the manufacture of parachutes are included in data prior to 1958.

<sup>3</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>4</sup>The figures for 1939, but not for 1937, have been revised for comparability with the figures for later years. The principal revision is the exclusion of data for railroad repair shops reclassified as nonmanufacturing establishments. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$1,794 million.

<sup>5</sup>The figures for 1935 and earlier years are not sufficiently comparable with those for later years to be shown in this table because the earlier figures exclude data for establishments primarily engaged in the manufacture of aircraft engines and for a number of large establishments classified prior to 1937 in other industry groups.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
37	TRANSPORTATION EQUIPMENT, TOTAL <sup>1</sup>	6 507	2 662	1 557 759	9 164 581	1 134 640	2 266 224	6 019 960	15 283 694	608 273	1 705 501	13 930 280
	NEW ENGLAND	453	147	99 793	564 905	71 316	148 832	363 067	886 531	38 068	92 301	686 722
	MAINE	81	18	5 324	25 732	4 794	9 656	21 576	42 901	1 160	3 758	27 474
	NEW HAMPSHIRE	9	1	65	215	55	117	184	670	7	(*)	(*)
	VERMONT	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MASSACHUSETTS	172	60	22 830	135 032	14 714	29 623	80 081	243 151	6 962	23 599	216 744
	RHODE ISLAND	32	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	CONNECTICUT	154	57	70 612	399 899	50 969	107 940	258 176	586 552	29 746	63 568	432 597
	MIDDLE ATLANTIC	941	411	210 320	1 240 160	151 778	296 479	811 746	2 050 629	61 494	263 696	2 187 696
	NEW YORK	461	192	104 735	628 628	75 895	146 951	407 460	959 939	30 339	141 131	1 188 463
	NEW JERSEY	247	103	50 959	295 740	36 884	72 839	199 209	575 378	13 494	54 235	481 285
	PENNSYLVANIA	233	116	54 626	315 792	38 999	76 689	205 077	515 312	17 661	68 330	517 975
	EAST NORTH CENTRAL	1 608	895	561 025	3 310 554	422 087	838 504	2 307 773	5 967 291	277 831	710 857	6 126 489
	OHIO	363	230	151 552	932 429	106 321	216 895	595 115	1 566 867	107 876	162 418	1 386 712
	INDIANA	260	171	79 749	454 322	56 366	109 081	293 501	757 779	39 185	92 445	734 346
	ILLINOIS	275	129	44 673	255 425	32 610	65 440	170 016	535 606	16 212	50 986	475 603
	MICHIGAN	568	303	252 370	1 493 738	199 382	392 691	1 109 318	2 749 241	103 920	375 470	3 274 286
	WISCONSIN	142	62	32 681	174 640	27 408	54 397	139 823	357 798	10 638	29 535	255 540
	WEST NORTH CENTRAL	412	166	111 812	611 055	82 077	163 375	405 793	1 105 799	38 071	113 220	1 002 511
	MINNESOTA	101	33	8 739	46 296	7 091	14 184	34 534	97 821	1 436	6 852	63 452
	IOWA	75	28	3 883	20 159	3 192	6 598	14 717	30 983	1 467	4 705	29 797
	MISSOURI	125	59	52 012	288 431	36 918	72 312	178 027	563 922	31 189	45 696	488 533
	NORTH DAKOTA	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA	25	12	2 064	9 357	1 668	3 493	6 490	16 724	982	1 255	7 129
	KANSAS	76	31	44 890	246 023	33 022	66 472	171 451	394 929	2 909	54 644	413 316
	SOUTH ATLANTIC	707	211	104 959	572 090	80 592	153 043	392 481	943 692	53 648	97 583	800 181
	DELAWARE	11	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MARYLAND	129	40	43 723	245 495	31 358	58 214	156 575	394 831	12 369	41 262	324 047
	DISTRICT OF COLUMBIA	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	VIRGINIA	85	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18 054	129 097
	WEST VIRGINIA	15	5	1 602	8 408	1 180	2 392	6 174	12 071	866	1 365	13 647
	NORTH CAROLINA	81	21	2 344	8 373	1 955	3 438	6 128	15 791	706	(*)	(*)
	SOUTH CAROLINA	20	7	621	2 168	526	1 324	1 564	3 265	78	468	2 328
	GEORGIA	71	26	24 630	145 830	18 130	35 278	89 202	256 141	25 526	22 725	207 277
	FLORIDA	292	75	6 647	41 290	7 857	14 971	31 166	56 442	4 316	5 712	29 395
	EAST SOUTH CENTRAL	204	85	38 780	197 193	32 886	67 490	159 862	289 685	9 950	26 047	173 411
	KENTUCKY	31	16	4 594	24 388	3 640	7 744	18 244	71 593	997	3 171	30 324
	TENNESSEE	69	29	5 617	23 901	4 513	9 013	16 558	43 658	4 085	5 860	52 846
	ALABAMA	68	23	17 229	87 433	14 501	30 108	68 443	104 147	2 093	11 029	56 872
	MISSISSIPPI	36	17	11 340	61 471	10 232	20 625	56 617	70 287	2 775	6 165	33 368
	WEST SOUTH CENTRAL	533	175	83 072	471 963	62 100	121 261	321 251	735 343	24 142	76 123	464 688
	ARKANSAS	41	11	1 076	3 404	948	1 653	2 761	6 092	502	473	2 284
	LOUISIANA	115	35	6 987	34 026	5 865	11 042	26 532	49 437	1 770	9 337	50 963
	OKLAHOMA	69	17	10 162	58 474	8 032	16 640	42 336	71 496	1 010	10 884	50 080
	TEXAS	308	112	64 847	376 059	47 255	91 926	249 622	608 318	20 860	55 426	361 359
	MOUNTAIN	119	38	9 855	61 005	7 725	16 229	44 331	116 454	4 799	7 394	49 952
	MONTANA	5	...	53	231	45	88	160	444	32	(*)	(*)
	IDAHO	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	100	634
	WYOMING	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	COLORADO	39	14	2 568	13 999	1 915	3 973	8 926	42 755	729	863	5 362
	NEW MEXICO	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ARIZONA	36	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5 881	40 751
	UTAH	17	5	1 413	9 383	887	1 827	4 139	9 693	2 838	(*)	(*)
	NEVADA	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	PACIFIC	1 630	534	338 143	2 135 656	224 079	461 011	1 213 656	3 185 359	100 270	318 278	2 438 626
	WASHINGTON	179	39	69 744	431 334	45 880	95 010	233 156	626 046	18 971	42 986	258 463
	OREGON	80	21	3 849	20 421	3 089	5 624	14 750	33 851	1 054	2 448	16 281
	CALIFORNIA	1 372	475	264 550	1 683 901	175 110	360 377	965 750	2 525 462	80 245	272 843	2 163 882
371	MOTOR VEHICLES AND EQUIPMENT, TOTAL <sup>1</sup>	2 283	1 024	577 188	3 318 106	458 220	905 241	2 478 291	6 750 675	322 911	696 404	6 410 939
	NEW ENGLAND	82	28	5 866	30 464	4 499	9 093	21 075	52 849	1 145	8 328	90 859
	MASSACHUSETTS	45	20	2 928	16 229	2 149	4 532	11 030	26 047	649	5 937	73 497
	RHODE ISLAND	10	2	432	1 753	347	667	1 307	3 520	79	(*)	(*)
	CONNECTICUT	21	6	2 475	12 387	1 980	3 849	8 672	23 106	412	(*)	(*)
	MIDDLE ATLANTIC	316	137	68 865	397 213	54 326	107 756	297 322	798 941	25 371	76 533	763 781
	NEW YORK	145	57	35 163	199 119	27 667	55 425	150 173	371 202	14 928	46 230	397 839
	NEW JERSEY	62	29	14 701	85 229	11 879	23 199	63 904	237 314	4 812	14 269	200 391
	PENNSYLVANIA	109	51	19 001	112 865	14 780	29 132	83 245	190 425	5 631	16 032	165 551
	EAST NORTH CENTRAL	833	510	408 911	2 408 321	324 540	646 355	1 804 589	4 608 746	234 800	522 239	4 517 482
	OHIO	185	130	84 259	510 787	66 567	137 677	381 027	943 872	87 575	80 754	691 598
	INDIANA	104	77	45 057	253 451	34 916	66 941	183 378	514 727	30 196	55 181	434 753
	ILLINOIS	165	76	22 011	123 574	17 249	34 971	89 109	248 217	9 138	18 798	182 786
	MICHIGAN	319	195	231 259	1 376 156	183 255	362 139	1 032 749	2 595 206	98 648	346 079	3 009 913
	WISCONSIN	60	32	26 325	144 353	22 553	44 627	118 326	306 724	9 243	21 426	198 381
	WEST NORTH CENTRAL	175	72	26 380	136 886	21 672	40 639	103 552	435 073	19 165	27 528	382 045
	IOWA	37	13	1 200	5 382	986	1 991	4 099	9 160	339	1 188	10 628
	MISSOURI	67	36	17 857	91 341	15 009	27 431	71 231	316 361	17 175	18 038	248 502
	NEBRASKA	11	5	818	3 753	657	1 301	2 705	6 366	131	(*)	(*)

See footnotes at end of table.



## TRANSPORTATION EQUIPMENT

37-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958										1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted	
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
371	MOTOR VEHICLES AND EQUIPMENT--CON.												
	SOUTH ATLANTIC . . . . .	165	57	22 601	113 166	18 427	33 827	85 544	319 085	19 017	33 467	393 797	
	NORTH CAROLINA . . . . .	29	8	1 418	4 924	1 170	1 808	3 537	10 378	472	1 159	6 737	
	SOUTH CAROLINA . . . . .	7	4	201	787	160	327	545	1 675	36	105	527	
	FLORIDA . . . . .	28	7	494	1 868	364	743	1 264	3 292	159	(*)	(*)	
	EAST SOUTH CENTRAL . . . . .	88	47	9 547	45 299	7 336	14 603	31 736	110 257	5 253	(*)	(*)	
	TENNESSEE . . . . .	32	18	2 804	12 154	2 012	3 862	7 805	23 585	2 666	2 710	29 935	
	ALABAMA . . . . .	27	11	1 779	7 789	1 409	2 940	5 737	13 489	494	1 143	6 236	
	WEST SOUTH CENTRAL . . . . .	152	41	7 515	37 898	6 053	12 182	28 101	96 402	1 960	(*)	(*)	
	ARKANSAS . . . . .	16	3	337	993	308	473	895	1 487	220	221	1 046	
	LOUISIANA . . . . .	16	6	458	2 243	392	916	1 704	4 490	214	(*)	(*)	
	OKLAHOMA . . . . .	32	6	716	2 954	561	1 145	2 120	5 490	191	(*)	(*)	
	TEXAS . . . . .	88	26	6 004	31 708	4 792	9 648	23 382	84 935	1 335	6 610	65 877	
	MOUNTAIN . . . . .	47	12	994	4 450	771	1 467	2 951	8 373	195	890	5 147	
	COLORADO . . . . .	22	7	635	2 905	490	922	1 861	6 436	106	(*)	(*)	
	UTAH . . . . .	8	2	166	722	133	258	540	883	33	(*)	(*)	
	PACIFIC . . . . .	425	120	26 509	144 409	20 596	39 319	103 421	318 170	16 005	27 417	257 825	
	WASHINGTON . . . . .	31	7	1 394	7 658	966	2 011	5 279	12 569	262	(*)	(*)	
	OREGON . . . . .	29	7	777	4 034	569	1 015	2 694	8 032	535	(*)	(*)	
	CALIFORNIA . . . . .	365	106	24 338	132 717	19 061	36 293	95 448	297 569	15 208	25 577	246 436	
372	AIRCRAFT AND PARTS, TOTAL <sup>1</sup> . . . . .	1 569	775	765 482	4 720 050	499 499	1 019 087	2 675 821	6 924 338	205 499	822 470	6 287 620	
	NEW ENGLAND . . . . .	123	69	69 015	387 255	47 277	98 923	238 981	584 916	28 441	66 276	479 165	
	MIDDLE ATLANTIC . . . . .	243	144	96 182	595 795	61 925	121 732	330 105	911 756	21 006	135 662	1 106 805	
	NEW YORK . . . . .	137	72	57 116	361 830	38 695	74 235	210 089	499 758	11 654	80 163	686 277	
	NEW JERSEY . . . . .	62	38	22 494	134 929	13 054	26 308	69 855	233 493	5 409	28 230	214 284	
	PENNSYLVANIA . . . . .	44	34	16 572	99 036	10 176	21 189	50 161	178 505	3 943	27 269	206 242	
	EAST NORTH CENTRAL . . . . .	295	171	111 121	692 784	64 594	128 655	350 144	1 066 553	27 826	150 271	1 295 444	
	OHIO . . . . .	102	62	60 674	386 669	34 235	68 398	186 419	570 621	17 138	73 282	634 834	
	INDIANA . . . . .	44	26	25 804	157 962	14 227	28 498	77 815	219 294	6 169	31 164	258 172	
	ILLINOIS . . . . .	31	24	11 041	65 962	6 742	13 800	37 425	171 816	1 448	18 712	143 349	
	MICHIGAN . . . . .	109	53	12 403	75 350	8 726	16 529	44 814	90 358	2 953	25 088	241 186	
	WISCONSIN . . . . .	9	6	1 199	6 841	664	1 430	3 671	14 464	118	2 023	17 902	
	WEST NORTH CENTRAL . . . . .	73	38	78 446	443 222	54 783	110 967	279 538	614 196	15 649	81 234	591 642	
	MINNESOTA . . . . .	11	8	4 187	23 208	3 703	7 223	19 408	28 443	234	(*)	(*)	
	SOUTH . . . . .	106	64	114 682	682 085	81 289	160 812	429 112	955 198	34 723	(*)	(*)	
	NORTH CAROLINA . . . . .	5	3	226	945	155	312	512	1 439	34	(*)	(*)	
	FLORIDA . . . . .	28	13	2 275	9 890	1 740	3 294	7 153	15 277	648	201	987	
	TEXAS . . . . .	36	23	50 544	307 690	35 779	69 665	199 650	469 290	16 366	44 045	270 215	
	MOUNTAIN . . . . .	31	17	8 145	54 115	6 354	13 760	39 444	104 064	4 102	6 454	44 452	
	COLORADO . . . . .	8	3	1 656	10 096	1 196	2 687	6 319	34 622	632	(*)	(*)	
	PACIFIC . . . . .	698	272	287 891	1 864 794	183 277	384 238	1 008 497	2 687 655	73 752	271 824	2 054 541	
373	SHIPS AND BOATS, TOTAL . . . . .	1 970	499	144 442	773 429	122 309	238 053	619 170	1 070 996	54 035	126 352	776 415	
	NEW ENGLAND . . . . .	233	42	23 178	138 790	18 223	38 361	97 194	237 965	8 138	16 422	105 019	
	MIDDLE ATLANTIC . . . . .	300	96	26 411	144 297	22 086	42 257	116 474	189 375	9 550	25 945	156 726	
	NEW YORK . . . . .	156	52	8 203	42 666	6 589	11 732	31 447	55 626	2 888	10 323	65 658	
	NEW JERSEY . . . . .	112	33	13 168	72 179	11 475	22 362	63 038	98 248	3 163	11 101	61 508	
	PENNSYLVANIA . . . . .	32	11	5 040	29 452	4 022	8 163	21 989	35 501	3 499	4 520	29 560	
	NORTH CENTRAL . . . . .	284	84	13 732	63 561	11 716	23 288	51 033	92 338	4 749	(*)	(*)	
	OHIO . . . . .	33	13	2 491	13 008	2 301	4 745	11 602	15 561	2 080	2 107	15 269	
	MICHIGAN . . . . .	76	21	3 714	17 463	3 190	5 981	13 841	23 607	599	3 111	15 864	
	WISCONSIN . . . . .	46	16	2 934	13 521	2 572	5 125	10 788	21 699	553	4 057	25 702	
	IOWA . . . . .	11	4	152	603	110	228	412	955	(D)	(*)	(*)	
	MISSOURI . . . . .	16	6	1 118	5 207	991	2 143	4 244	9 377	272	770	5 083	
	SOUTH ATLANTIC . . . . .	438	110	36 371	187 843	31 460	59 596	153 710	255 018	16 750	31 140	195 439	
	DELAWARE . . . . .	6	3	299	1 333	253	452	1 041	1 169	62	104	470	
	MARYLAND . . . . .	89	22	12 143	66 485	9 945	17 821	49 993	99 386	5 689	(*)	(*)	
	GEORGIA . . . . .	22	5	1 135	5 108	1 016	1 943	4 145	8 598	209	(*)	(*)	
	FLORIDA . . . . .	209	49	6 349	27 730	5 317	10 174	21 437	33 985	3 347	5 235	27 132	
	EAST SOUTH CENTRAL . . . . .	87	21	14 219	77 917	13 001	26 556	72 863	94 029	2 338	8 607	48 187	
	ALABAMA . . . . .	32	7	3 575	18 551	3 275	6 549	16 588	28 976	334	(*)	(*)	
	WEST SOUTH CENTRAL . . . . .	254	73	13 109	62 582	10 695	20 017	46 925	91 776	4 453	13 593	70 819	
	LOUISIANA . . . . .	96	28	6 465	31 646	5 419	10 060	24 711	44 831	1 526	8 553	44 131	
	TEXAS . . . . .	133	41	6 210	29 564	4 913	9 335	21 162	44 307	2 660	4 741	25 217	
	MOUNTAIN . . . . .	19	...	103	404	91	177	338	777	83	(*)	(*)	
	PACIFIC . . . . .	355	73	17 319	98 035	15 037	27 801	80 633	139 586	7 895	(*)	(*)	
	CALIFORNIA . . . . .	204	46	10 990	62 218	9 560	17 632	51 038	88 628	6 017	12 522	84 788	

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
374	RAILROAD EQUIPMENT, TOTAL. . . . .	92	57	39 591	222 399	28 634	53 657	149 421	319 662	13 910	51 575	403 547
	NEW ENGLAND . . . . .	4	3	1 033	5 418	745	1 429	3 649	4 118	80	(*)	(*)
	MASSACHUSETTS. . . . .	4	3	1 033	5 418	745	1 429	3 649	4 118	80	(*)	(*)
	MIDDLE ATLANTIC . . . . .	28	15	17 129	96 062	11 949	21 722	62 514	138 655	4 851	(*)	(*)
	EAST NORTH CENTRAL. . . . .	39	28	16 773	97 349	12 468	23 786	66 253	149 743	6 544	22 905	216 716
	INDIANA. . . . .	4	4	3 165	18 014	2 499	4 614	13 584	12 380	723	5 299	36 340
	ILLINOIS . . . . .	20	12	9 672	56 489	6 965	13 505	36 184	101 072	4 980	(*)	(*)
	WEST NORTH CENTRAL. . . . .	9	6	1 562	7 584	1 141	2 254	5 322	14 092	645	2 287	14 070
	SOUTH . . . . .	8	4	1 746	9 083	1 382	2 796	7 168	6 591	1 060	1 597	11 582
	WEST. . . . .	4	1	1 348	6 903	949	1 670	4 515	6 463	730		
375	MOTORCYCLES, BICYCLES, & PARTS, TOTAL <sup>2</sup>	51	29	7 578	33 020	6 179	12 213	24 115	52 125	2 549	7 061	41 819
379	TRANSPORTATION EQUIPMENT, NEC: TOTAL	642	278	23 478	97 577	19 799	37 973	73 142	165 898	9 369	12 767	78 722
	NEW ENGLAND . . . . .	8	2	115	550	86	175	328	3 163	(D)	(*)	(*)
	MIDDLE ATLANTIC . . . . .	42	12	858	3 383	732	1 467	2 639	6 325	(D)	(*)	(*)
	PENNSYLVANIA . . . . .	30	11	784	3 062	667	1 339	2 363	5 697	393	(*)	(*)
	EAST NORTH CENTRAL. . . . .	206	110	10 086	45 045	8 481	16 308	33 141	76 715	3 852	(*)	(*)
	INDIANA. . . . .	74	51	3 934	17 563	3 356	6 396	13 210	31 063	1 451	(*)	(*)
	ILLINOIS . . . . .	25	11	585	2 596	446	859	1 789	3 978	226	(*)	(*)
	WEST NORTH CENTRAL. . . . .	86	31	2 176	8 946	1 898	3 932	7 032	18 429	1 673	671	3 554
	MINNESOTA. . . . .	13	4	157	596	131	267	453	766	130	(*)	(*)
	MISSOURI . . . . .	20	4	280	997	240	437	775	1 571	174	255	1 340
	KANSAS . . . . .	14	7	579	2 740	534	1 161	2 294	5 088	126	(*)	(*)
	SOUTH ATLANTIC. . . . .	49	15	1 127	3 882	957	1 738	2 962	7 618	384	(*)	(*)
	MARYLAND . . . . .	7	3	156	517	122	208	337	833	12	(*)	(*)
	GEORGIA. . . . .	9	5	383	1 416	346	675	1 193	2 642	197	(*)	(*)
	EAST SOUTH CENTRAL. . . . .	14	5	513	1 544	434	822	1 147	2 578	29	(*)	(*)
	WEST SOUTH CENTRAL. . . . .	76	31	3 405	11 925	2 754	5 134	8 586	16 396	769	(*)	(*)
	OKLAHOMA . . . . .	13	4	923	3 525	627	1 154	2 104	4 225	210	(*)	(*)
	WEST. . . . .	161	72	5 198	22 302	4 457	8 397	17 307	34 674	2 182	2 220	14 532
	IDAHO. . . . .	6	4	166	386	140	207	344	608	(D)	(*)	(*)
	CALIFORNIA . . . . .	121	57	4 185	18 578	3 603	6 909	14 481	29 128	1 569	2 133	13 845

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

<sup>1</sup>The 1954 data for this industry are not strictly comparable with 1958 figures shown in the table. See Appendix A or section relating to the specified industry in 1958 Census of Manufactures, Volume II for further information on the comparability of 1958 and 1954 statistics.

<sup>2</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.



# TRANSPORTATION EQUIPMENT

37-5

Table 3--DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Transportation equipment (SIC 37)	Motor vehicles and equipment (SIC 371)	Aircraft and parts (SIC 372)	Ships and boats (SIC 373)	Railroad equipment (SIC 374)	Motor-cycles, bicycles, and parts (SIC 375)	Transportation equipment nec (SIC 379)
Number of establishments, total.....	6,607	2,283	1,569	1,970	92	51	642
With 1-19 employees.....	3,945	1,259	794	1,471	35	22	364
With 20-99 employees.....	1,529	534	424	330	17	15	209
With 100 employees or more.....	1,133	490	351	169	40	14	69
Proprietors and working partners.....Number..	3,322	1,006	620	1,344	19	12	321
All employees:							
Number (average for the year).....	1,557,759	577,188	765,482	144,442	39,591	7,578	23,478
Payroll.....\$1,000..	9,164,581	3,318,106	4,720,050	773,429	222,399	33,020	97,577
Production workers:							
Number (average for the year).....	1,134,640	458,220	499,499	122,309	28,634	6,179	19,799
March.....	1,160,440	472,623	503,123	125,343	35,940	5,366	18,045
May.....	1,108,760	434,283	495,761	124,312	29,057	5,909	19,438
August.....	1,049,705	381,167	496,337	119,157	25,537	7,061	20,446
November.....	1,221,023	545,249	502,612	121,275	24,038	6,415	21,434
Man-hours.....1,000..	2,266,224	905,241	1,019,087	238,053	53,657	12,213	37,973
January-March.....do....	586,512	240,613	258,528	59,141	17,895	2,316	8,019
April-June.....do....	548,224	206,634	253,637	61,716	13,910	3,018	9,309
July-September.....do....	523,301	194,749	246,937	57,728	10,658	3,458	9,771
October-December.....do....	605,086	262,299	259,228	58,574	11,180	3,410	10,395
Wages.....\$1,000..	6,019,960	2,478,291	2,675,821	619,170	149,421	24,115	73,142
Value added by manufacture, adjusted.....do....	15,283,694	6,750,675	6,924,338	1,070,996	319,662	52,125	165,898
Cost of fuels consumed.....do....	100,224	63,015	22,420	7,903	5,337	569	980
Cost of electricity purchased.....do....	153,196	82,208	53,597	11,472	3,948	568	1,403
Manufacturers' inventories:							
Beginning of year, total.....do....	7,011,192	2,140,286	4,020,005	462,589	305,064	21,718	61,530
Finished products.....do....	718,216	362,059	274,360	27,533	27,942	4,847	21,475
Work-in-process.....do....	4,358,619	869,651	2,930,493	333,947	206,394	9,497	8,637
Materials, supplies, fuel, etc.....do....	1,934,357	908,576	815,152	101,109	70,728	7,374	31,418
End of year, total.....do....	6,357,752	1,921,535	3,704,695	483,046	164,203	21,981	62,292
Finished products.....do....	639,962	330,358	237,909	29,549	18,663	4,282	19,201
Work-in-process.....do....	4,104,098	808,028	2,807,517	367,529	101,155	9,766	10,103
Materials, supplies, fuel, etc.....do....	1,613,692	783,149	659,269	85,968	44,385	7,933	32,988
Expenditures for plant and equipment, total.....do....	692,154	372,993	235,460	56,301	14,631	2,624	10,145
New, total.....do....	608,273	322,911	205,499	54,035	13,910	2,549	9,369
New structures and additions to plant.....do....	166,423	54,471	76,346	27,452	2,585	374	5,195
New machinery and equipment.....do....	441,850	268,440	129,153	26,583	11,325	2,175	4,174
Used plant and equipment.....do....	83,881	50,082	29,961	2,266	721	75	776

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.





# Motor Vehicles and Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries--

## Code and Title

3713--Truck and Bus Bodies

3715--Truck Trailers

3717--Motor Vehicles and Parts

### 3713--Truck and Bus Bodies

This industry comprises establishments primarily engaged in the manufacture of truck and bus bodies, for sale separately or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and busses are classified in Industry 3717, Motor Vehicles and Parts, and stamped body parts for trucks and busses in Industry 3461, Metal Stampings. For a detailed list of products of Industry 3713, refer to table 6A, product codes 3713012 to 3713098.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Truck and Bus Bodies Industry in 1958 totaled \$308 million. This included shipments of truck and bus bodies, valued at \$242 million, shipments of other products valued at \$36 million, and miscellaneous receipts (mainly resales) of \$30 million.

This industry's shipments of truck and bus bodies in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 86 percent. Secondary products shipped by this industry in 1958 consisted mainly of truck trailers, \$11 million; and automotive parts and accessories, \$14 million.

Industry 3713 shipments of truck and bus bodies in 1958 represented 87 percent (coverage ratio) of these products valued at \$278 million shipped by all industries. In 1954, the coverage ratio also was 87 percent. Other industries shipping truck and bus bodies consisted mainly of Industry 3531, Construction Machinery, \$4 million; Industry 3715, Truck Trailers, \$7 million; and Industry 3717, Motor Vehicles and Parts, \$13 million.

### 3715--Truck Trailers Industry

This industry comprises establishments primarily engaged in the manufacture of truck trailers and truck trailer chassis for sale separately, but not engaged in manufacturing complete trucks and busses. Establishments primarily engaged in manufacturing trailer bodies are classified in Industry 3713, Truck and Bus Bodies. Those primarily engaged in manufacturing passenger car trailers are classified in Industry 3799, Transportation Equipment, N.E.C.; and those primarily engaged in manufacturing trailer coaches are classified in Industry 3791, Trailer Coaches. For a detailed list of products of Industry 3715, refer to table 6A, product codes 3715012 to 3715055.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Truck Trailers Industry in 1958 totaled \$335 million. This included shipments of truck trailers valued at \$265 million, shipments of other products valued at \$48 million, and miscellaneous receipts (mainly resales) of \$22 million.

This industry's shipments of truck trailers in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 82 percent. Secondary products shipped by this industry in 1958 consisted mainly of truck and bus bodies, \$7 million; and automotive parts and accessories, \$23 million.

Industry 3715 shipments of truck trailers in 1958 represented 93 percent (coverage ratio) of these products valued at \$284 million shipped by all industries. In 1954, the coverage ratio was also 93 percent. Another industry shipping truck trailers was Industry 3713, Truck and Bus Bodies, \$11 million.

### 3717 (Census Code)--Motor Vehicles and Parts Industry (S.I.C. Codes 3711, 3712, and 3714)

The Motor Vehicles and Parts Industry comprises establishments primarily engaged in manufacturing or assembling passenger automobiles, trucks, commercial cars and busses (except trackless trolleys, Industry 3742), and special purpose motor vehicles such as ambulances, fire engines, taxicabs, scout cars, personnel carriers, amphibian motor vehicles, and selected parts and accessories for motor vehicles. Establishments primarily engaged in manufacturing motor vehicles on purchased chassis (ambulances, fire engines, etc.) are classified in Industry 3713, Truck and Bus Bodies.

In this report, based on the 1958 Census of Manufactures, as in 1954, the three Standard Industrial Classification Industries (3711, 3712, and 3714) have been combined because of a major problem of defining the reporting unit in terms of these industries. This difficulty arises from the fact that many large establishments have integrated operations which include the production of parts or bodies and the assembly of complete vehicles at the same location.

Included in Industry 3717 are such parts as passenger-car bodies, motor vehicle engines (except Diesel), brakes, clutches, axles, radiators, differentials, transmissions, wheels and frames, windshield wipers, automotive bumpers, camshafts, connecting rods, crankshaft assemblies, cylinder heads, drive shafts, exhaust systems, fuel systems, heaters, hoods, horns, instrument board assemblies, lubrication systems, mufflers, power-transmission equipment, rear-axle housings, shock absorbers, steering mechanisms, universal joints, wheel rims, windshield frames, and automobile accessories, not elsewhere classified. For a list of primary products of Industry 3717, see table 6A, product codes 3717111 to 3717711, and table 6B.



A considerable number of components, parts, and accessories for motor vehicles are not classified in Industry 3717 but are classified in other Standard Industrial Classification industries based on the characteristic of the product itself rather than the use to which it is put. Among the more important of these are automotive hardware, Industry 3429, Hardware, N.E.C.; automotive stampings, Industry 3461, Metal Stampings; Diesel and semi-Diesel engines, Industry 3519, Internal Combustion Engines; sealed beam and other electric lamps, Industry 3641, Electric Lamps (Bulbs); motor vehicle lighting fixtures, Industry 3642, Lighting Fixtures; tire and inner tubes, Industry 3011, Tires and Inner Tubes; automobile glass, Industry 3211, Flat Glass; ignition equipment such as spark plugs, distributors, switches, ignition coils, generators, cranking motors, etc., Industry 3694, Engine Electrical Equipment; storage batteries, Industry 3691, Storage Batteries; automobile radios, Industry 3651, Radio and TV Receiving Sets; and carburetors and pistons, Industry 3599, Machine Shops.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number from the previous classification system, but were slightly changed as to content. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Rebuilt motor vehicle engines and parts (except carburetors), automobile, truck and bus bearings, formerly classified in Industries 3599, Machine Shops and 3566, Power Transmission Equipment, respectively, are now included in Industry 3717, Motor Vehicles and Parts.

Motor vehicle and equipment companies frequently operate separate establishments manufacturing such components, parts and accessories for automotive use. These establishments are not classified in Industry 3717. Therefore, to obtain an overall picture of automotive components, parts and accessories associated with the manufacture or assembly of complete motor vehicles and equipment, reference must also be made to many of the industries outside of Industry 3717. This situation occurs, of course, not only in connection with the Motor Vehicles and Parts Industry but for many other industries (aircraft, locomotives, etc.).

Another factor to be considered in dealing with the statistics for this group of industries relates to the varied degree of establishment integration in respect to such metalworking operations as stamping, foundry, and tool and die production associated with the output of motor vehicles and equipment. In some establishments many of these activities are conducted as an integral part of the same establishment which produces or assembles motor vehicles and equipment. In these cases, their employment, wages, materials, etc., are included in the statistics for the establishment. The extent of such integrated captive operations is shown in Table 9 for the motor vehicle industry.

On the other hand, the foundry, and tool and die activities may be set up as separate establishments of motor vehicle and equipment companies or such activities may be performed by establishments which are not part of motor vehicle or parts companies. In either of these cases, data for such separate establishments would not be included in Industry 3717, but rather in their respective industries, e.g., Industry Group 332, Iron and Steel Foundries; In-

dustry Group 336, Nonferrous Foundries; and Industry 3544, Special Dies and Tools.

Data on cost of materials and value of shipments for the Motor Vehicles and Parts Industry are not shown because of the extensive duplication included in these data. This is caused by the transfer of parts between plants of the same company and by the shipment of parts from independent plants to motor-vehicle companies for assembly into completed vehicles. Thus, these parts are to a large extent duplicated in both value of shipments and cost of materials. This duplication, however, is excluded from the data for value added by manufacture. (See Introduction, "Value Added by Manufacture,") To achieve uniformity in the distribution of value added by manufacture for multiplant companies, the valuation of parts and components transferred between plants of such companies was reported so that the value added by manufacture for the entire company was allocated to the various establishments in proportion to the contribution of each to the value of the finished product.

In view of this duplication in the value of shipments, the exact "primary product specialization ratio" for this industry cannot be computed. This ratio described the extent to which plants classified in an Industry "specialize" in making products described as primary to the industry. However, as shown in table 5B, shipments of primary products of this industry (excluding parts and attachments) amounted to over \$11 billion. Secondary products shipped by these establishments amounted to only \$781 million. Based on these figures the primary product specialization ratio for 1958, as for 1954, is over 90 percent.

Secondary products shipped by this industry in 1958 consisted mainly of job stampings, \$72 million; aircraft engine parts, \$36 million; ordnance and accessories, \$21 million; parts and accessories for internal combustion engines, \$18 million; construction machinery, \$15 million; and plain bearings, and bushings, \$14 million.

As shown in table 5B, except for motor vehicle parts and accessories, only a very small amount of primary products of this industry was shipped by establishments classified in other industries.

Table 6B presents data on the total production of selected motor vehicle parts as well as the use of these parts for replacement. These data are not a precise measure of the sale of replacement parts in the United States since they include shipments of parts for export and are affected by inventory changes of parts during the year for both producers of parts and assemblers of vehicles.

In order to arrive at an aggregate value for replacement parts for 1958, without duplication, establishments producing replacement parts, but not engaged in manufacturing complete vehicles, were requested to exclude from their shipments data on replacement parts all shipments to motor-vehicle producers. Motor-vehicle producers that reshipped such replacement parts were requested to report the value of these shipments of replacement parts even though the parts were not made by such companies. This total value of replacement parts in 1958 is shown in table 6A.

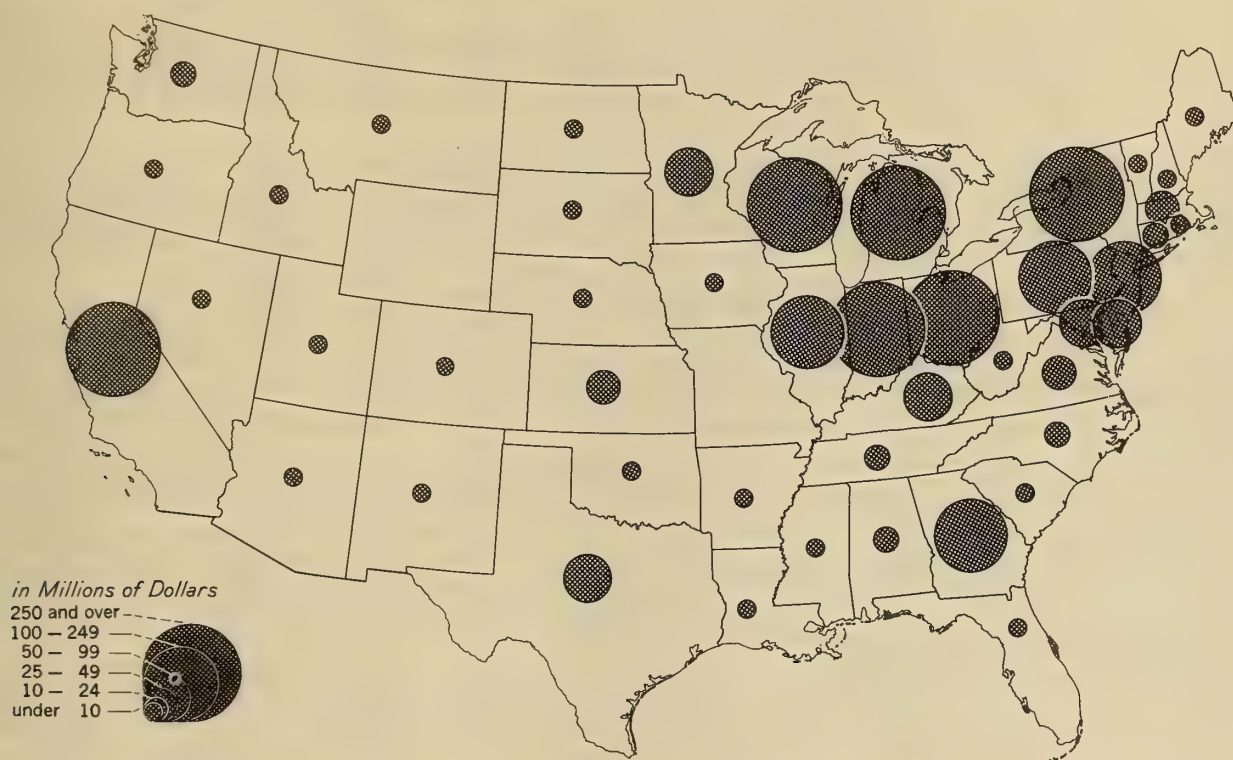
While the primary products of the industry include passenger cars, knocked down or assembled and chassis for sale separately; and truck tractors, truck chassis and trucks, the degree to which plants specialize in the manufacture of each of these is indicated in table 8.



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT: SIC 371

Value Added by Manufacture by State: 1958



Includes Industries 3711, 3712, 3713, 3714 and 3715. See Table 2.

Bureau of the Census H-58-D371

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>3</sup>	Value of shipments <sup>3</sup>	Capital expenditures, new	Specialization ratio <sup>4</sup> (per-cent)	Coverage ratio <sup>5</sup> (per-cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3713 (old SIC 3713)	Truck and bus bodies:														
	1958.....	550	562	187	20,009	91,374	15,938	30,741	65,405	145,608	163,674	307,769	3,627	87	87
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	21,316	93,629	17,026	34,136	67,776	148,373	154,180	302,473	(S)	90	87
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	23,286	99,424	19,147	38,724	75,533	156,424	163,272	312,847	(S)	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	21,360	89,158	17,535	35,354	66,357	141,469	144,424	280,368	5,005	(NA)	(NA)
	1954.....	555	565	172	19,618	80,380	15,869	31,988	58,192	120,499	136,792	256,883	3,697	86	87
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	20,836	83,510	17,329	(NA)	65,764	126,013	132,433	258,446	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	21,894	85,050	18,166	(NA)	65,381	136,051	135,606	271,657	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	24,285	88,552	20,787	(NA)	69,793	137,620	154,098	291,718	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	18,068	58,225	14,692	(NA)	43,947	82,881	80,923	163,804	(NA)	(NA)	(NA)
	1947.....	599	603	206	26,646	78,386	22,876	47,209	62,664	127,429	114,868	242,297	(NA)	79	90
3715 (old SIC 3715)	Truck trailers:														
	1958.....	154	170	93	15,669	78,142	12,090	24,564	55,390	131,140	206,258	334,724	4,638	84	93
	1957 <sup>6</sup> .....	(NA)	(NA)	(NA)	16,427	82,470	12,329	24,737	55,510	137,424	215,352	354,079	(S)	(NA)	(NA)
	1956 <sup>6</sup> .....	(NA)	(NA)	(NA)	19,163	92,336	14,830	30,072	65,516	158,773	261,910	415,659	7,108	(NA)	(NA)
	1955 <sup>6</sup> .....	(NA)	(NA)	(NA)	18,957	91,766	15,138	32,376	67,498	147,181	264,348	408,208	6,181	(NA)	(NA)
	1954.....	115	130	78	16,381	72,904	13,023	26,197	52,352	115,718	200,943	316,832	2,788	82	93
	1953 <sup>6</sup> .....	(NA)	(NA)	(NA)	19,411	80,611	15,738	32,730	61,319	147,458	243,520	390,978	(NA)	(NA)	(NA)
	1952 <sup>6</sup> .....	(NA)	(NA)	(NA)	17,497	69,312	14,063	29,046	52,349	104,298	188,728	293,026	(NA)	(NA)	(NA)
	1951 <sup>6</sup> .....	(NA)	(NA)	(NA)	18,080	68,454	14,920	(NA)	52,933	112,340	215,657	327,997	(NA)	(NA)	(NA)
	1950 <sup>6</sup> .....	(NA)	(NA)	(NA)	11,826	43,583	9,905	20,752	33,742	92,022	147,242	239,264	(NA)	(NA)	(NA)
	1947.....	107	120	(NA)	12,488	36,287	9,741	19,239	25,964	67,570	88,116	155,686	(NA)	81	87
	1939.....	(NA)	99	(NA)	(NA)	(NA)	3,960	(NA)	5,291	13,626	22,356	35,982	(NA)	(NA)	(NA)
3717	Motor vehicles and parts: <sup>7</sup>														
	1958 (new).....	1,257	1,551	744	541,510	3,148,590	430,192	849,936	2,357,496	6,473,927	(8)	(8)	314,646	(8)	(8)
	1958 (old).....	(NA)	1,264	652	530,658	3,094,135	421,623	832,838	2,318,958	6,365,106	(8)	(8)	311,437	(8)	(8)
	1957 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	688,355	3,755,274	554,555	1,129,105	2,946,041	8,291,255	(8)	(8)	665,801	(8)	(8)
	1956 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	679,097	3,597,338	558,609	1,145,681	2,837,522	7,628,002	(8)	(8)	1,017,454	(8)	(8)
	1955 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	777,450	4,154,649	667,816	1,436,193	3,407,836	9,432,120	(8)	(8)	592,253	(8)	(8)
	1954 (old).....	991	1,226	649	649,274	3,214,827	545,359	1,125,912	2,569,419	5,901,436	(8)	(8)	722,199	(8)	(8)
	1953 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	807,597	3,812,230	684,336	1,385,869	3,085,219	6,940,945	(8)	(8)	(NA)	(8)	(8)
	1952 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	664,727	3,043,274	557,993	1,147,912	2,445,109	5,819,252	(8)	(8)	(NA)	(8)	(8)
	1951 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	723,503	2,971,973	621,090	(NA)	2,428,338	5,635,879	(8)	(8)	(NA)	(8)	(8)
	1950 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	720,788	2,839,371	625,462	1,281,758	2,355,462	5,919,893	(8)	(8)	(NA)	(8)	(8)
	1949 <sup>6</sup> (old).....	(NA)	(NA)	(NA)	648,326	2,370,355	552,448	1,103,235	1,932,590	4,583,364	(8)	(8)	(NA)	(8)	(8)
	1947 (old).....	(NA)	951	(NA)	645,067	2,039,872	552,555	1,102,482	1,666,913	3,544,924	(8)	(8)	269,720	(8)	(8)

NA Not available. <sup>7</sup>Revised.<sup>1</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>2</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>3</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). **Production Workers:** for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>4</sup> For the period 1954-1958, value added by manufacture represents adjusted value added and for earlier years, unadjusted value added. For 1958 and 1954, cost of materials includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of such resales. Figures for years prior to 1935 do not include cost of contract work. For 1958 and 1954, value of shipments includes shipments of products bought for resale; for other years, excludes value of such resales. For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. For a description of these statistics, see Introduction, "Value Added by Manufacture," "Cost of Materials Consumed," and "Value of Shipments." Unadjusted value added for 1954, cost of materials excluding cost of resales, and value of shipments excluding values of resales, for 1954 and 1958, are shown below:

Industry Code	Value Added (\$1,000)	Cost of Materials, etc. (\$1,000)		Value of Shipments (\$1,000)	
		1958	1954	1958	1954
3713	112,834	151,444	119,677	324,224	232,514
3715	113,469	197,566	192,041	292,446	305,510
3717	6,111,554	xxx	xxx	xxx	xxx

<sup>5</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>6</sup> The coverage ratio measures the extent to which all shipments or primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.<sup>7</sup> The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>8</sup> A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.<sup>9</sup> Not published because of extensive duplication contained in these data. See introductory text for explanation.



Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on Old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3717—Motor vehicles and parts.....	1,551	744	541,510	<sup>r</sup> 6,473,927	xxx	xxx	xxx	xxx
Old Industry 3599—Machine shops.....	250	73	5,797	48,445	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Old Industry 3566—Power transmission equipment....	29	19	4,994	59,717	511	266	49,192	466,163
Old Industry 3717—Motor vehicles and parts.....	1,264	651	530,658	<sup>r</sup> 6,365,106	1,264	651	530,658	<sup>r</sup> 6,365,106
All other old industries <sup>2</sup> .....	8	1	61	659	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>r</sup>Revised.

<sup>1</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

<sup>2</sup>These data are for a group of establishments that were classified in the industry because of shifts in their product classifications to conform to the new SIC and classification errors for small establishments that were not corrected since they are not statistically significant.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3713	Truck and bus bodies, total.....	562	187	20,009	91,374	15,938	30,741	65,405	145,608	307,769	3,627	19,618	117,131	26,646
	New England.....	31	5	340	1,454	270	524	1,104	1,787	4,585	(D)	452	2,210	801
	Middle Atlantic...	118	38	3,836	18,189	3,206	6,182	13,557	29,723	55,274	(D)	3,843	23,128	3,940
	New York.....	54	16	1,848	8,267	1,576	3,053	6,597	14,667	26,488	(2)	1,898	10,986	1,600
	New Jersey.....	23	7	637	3,294	529	1,071	2,281	6,002	10,117	(2)	607	4,810	945
	Pennsylvania.....	41	15	1,351	6,628	1,101	2,058	4,679	9,054	18,669	(2)	1,338	7,331	1,395
	East North Central	108	55	8,529	40,838	6,660	13,090	28,700	63,594	135,539	1,414	(3)	(3)	14,634
	Ohio.....	31	18	4,204	20,598	3,187	6,341	14,513	32,765	67,471	831	4,160	28,913	5,435
	Illinois.....	<sup>r</sup> 29	<sup>r</sup> 12	<sup>r</sup> 980	<sup>r</sup> 4,638	<sup>r</sup> 744	<sup>r</sup> 1,474	<sup>r</sup> 2,909	<sup>r</sup> 6,358	<sup>r</sup> 17,094	(2)	1,038	7,061	2,462
	Michigan.....	17	6	261	1,368	202	410	940	1,827	4,435	(2)	325	2,321	1,789
	West North Central	62	19	1,662	7,777	1,309	2,609	5,571	12,168	26,623	(2)	(3)	(3)	2,252
	Minnesota.....	14	4	240	1,157	181	333	728	2,092	5,560	(2)	249	1,718	227
	Iowa.....	10	3	296	1,199	247	500	996	1,951	3,785	(2)	287	1,406	471
	Nebraska.....	6	1	169	679	144	274	537	1,013	2,258	(2)	141	752	203
	South Atlantic....	68	24	2,062	7,492	1,689	3,229	5,398	11,500	28,427	506	(3)	(3)	1,330
	Maryland.....	12	3	172	573	136	252	411	710	1,449	(2)	217	1,051	201
	Virginia.....	11	5	232	887	187	340	621	1,478	3,567	(2)	214	857	88
	Georgia.....	11	4	700	2,238	587	1,094	1,689	3,117	9,263	(D)	459	2,138	388
	Florida.....	13	5	220	847	186	362	670	1,560	3,401	(2)	(3)	(3)	(3)
	East South Central	29	9	781	2,907	618	1,138	2,099	5,148	12,289	(2)	(3)	(3)	578
	Kentucky.....	6	3	115	517	94	203	383	791	1,593	(2)	(3)	(3)	(3)
	Alabama.....	9	2	149	631	119	272	496	1,174	2,057	(2)	204	816	54
	West South Central	38	10	801	2,832	656	1,201	2,171	6,067	11,638	(2)	(3)	(3)	1,020
	Texas.....	20	7	436	1,655	332	708	1,155	3,872	6,690	(2)	642	4,433	342
	Mountain.....	9	3	180	804	146	276	592	1,124	2,250	(2)	151	801	311
	Pacific.....	99	24	1,818	9,081	1,384	2,492	6,213	14,497	31,144	(2)	1,430	9,276	1,780
	California.....	81	23	1,642	8,189	1,253	2,255	5,550	13,196	27,157	(2)	1,117	7,835	1,315
3715	Truck trailers, total.....	170	93	15,669	78,142	12,090	24,564	55,390	131,140	334,724	4,638	16,381	113,469	12,488
	New England.....	5	1	65	486	41	129	276	435	2,363	(D)	(3)	(3)	(3)
	Middle Atlantic...	24	14	1,717	8,837	1,396	2,948	6,682	21,420	50,718	(D)	(3)	(3)	(3)
	New York.....	7	4	233	976	194	439	714	2,419	4,911	(2)	(3)	(3)	23
	New Jersey.....	3	2	151	734	118	245	536	1,382	2,417	(2)	(3)	(3)	(3)
	Pennsylvania.....	14	8	1,333	7,127	1,084	2,264	5,432	17,619	43,390	(2)	(3)	(3)	844
	East North Central	27	18	4,524	22,210	3,468	6,719	16,108	34,322	93,525	1,534	6,665	45,397	6,322
	Ohio.....	9	8	2,658	13,093	2,131	4,015	9,857	19,818	54,514	735	3,748	26,523	2,301
	Illinois.....	4	3	175	1,049	116	242	614	1,470	4,069	(2)	759	5,124	385
	Michigan.....	6	2	182	997	132	248	652	1,654	4,113	(2)	(3)	(3)	1,573

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3715	Truck trailers--Con.													
	West North Central	18	14	2,203	11,139	1,705	3,327	7,573	18,523	42,921	( <sup>2</sup> )	2,872	18,591	947
	Iowa.....	4	3	291	1,473	228	513	1,012	2,794	7,062	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South Atlantic....	17	9	1,212	4,916	952	1,976	3,415	7,507	19,133	( <sup>2</sup> )	763	3,961	( <sup>3</sup> )
	Virginia.....	6	2	252	949	203	402	677	1,133	2,821	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	105
	East South Central	14	8	1,570	6,655	1,235	2,506	4,865	9,779	29,655	( <sup>2</sup> )	1,322	7,659	( <sup>3</sup> )
	Alabama.....	10	5	1,090	4,706	839	1,726	3,415	7,266	22,508	( <sup>2</sup> )	467	2,402	247
	West South Central	21	11	1,636	7,709	1,272	2,746	5,420	13,836	37,120	( <sup>2</sup> )	1,048	7,038	( <sup>3</sup> )
	Louisiana.....	4	3	305	1,589	276	672	1,216	3,289	6,405	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Mountain.....	7	3	344	1,855	258	508	1,165	4,128	7,817	( <sup>2</sup> )	237	1,609	( <sup>3</sup> )
	Pacific.....	37	15	2,398	14,335	1,763	3,705	9,886	21,190	51,472	1,184	1,972	18,086	1,829
	California.....	28	9	1,918	11,693	1,413	2,945	7,914	15,999	39,970	1,067	1,620	15,412	1,305
3717	Motor vehicles and parts, total.....	1,551	744	541,510	3,148,590	430,192	849,936	2,357,496	6,473,927	( <sup>4</sup> )	314,646	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New England.....	46	22	5,461	28,524	4,188	8,440	19,695	50,627	( <sup>4</sup> )	1,098	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Massachusetts....	26	14	2,632	14,691	1,921	4,021	9,942	24,406	( <sup>4</sup> )	633	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Rhode Island.....	5	2	402	1,645	323	628	1,220	3,381	( <sup>4</sup> )	(D)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Connecticut.....	12	6	2,419	12,155	1,940	3,781	8,518	22,772	( <sup>4</sup> )	(D)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Middle Atlantic...	174	85	63,312	370,187	49,724	98,626	277,083	747,798	( <sup>4</sup> )	24,189	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New York.....	84	37	33,082	189,876	25,897	51,933	142,862	354,116	( <sup>4</sup> )	14,637	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	New Jersey.....	36	20	13,913	81,201	11,232	21,883	61,087	229,930	( <sup>4</sup> )	4,753	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Pennsylvania....	54	28	16,317	99,110	12,595	24,810	73,134	163,752	( <sup>4</sup> )	4,799	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	East North Central	698	437	395,858	2,345,273	314,412	626,546	1,759,781	4,513,508	( <sup>4</sup> )	231,852	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Ohio.....	145	104	77,397	477,096	61,249	127,321	356,657	891,289	( <sup>4</sup> )	86,009	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Indiana.....	84	62	42,556	242,570	33,005	63,358	175,363	499,859	( <sup>4</sup> )	29,306	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Illinois.....	132	61	20,856	117,887	16,389	33,255	85,586	240,389	( <sup>4</sup> )	8,995	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Michigan.....	296	187	230,816	1,373,791	182,921	361,481	1,031,157	2,591,725	( <sup>4</sup> )	98,552	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Wisconsin.....	41	23	24,233	133,929	20,848	41,131	111,018	290,246	( <sup>4</sup> )	8,990	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	West North Central	95	39	22,515	117,970	18,658	34,703	90,408	404,382	( <sup>4</sup> )	18,590	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Iowa.....	23	7	613	2,710	511	978	2,091	4,415	( <sup>4</sup> )	(D)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	South Atlantic....	80	24	19,327	100,758	15,786	28,622	76,731	300,078	( <sup>4</sup> )	18,313	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	East South Central	45	30	7,196	35,737	5,483	10,959	24,772	95,330	( <sup>4</sup> )	4,600	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Alabama.....	8	4	540	2,452	451	942	1,826	5,049	( <sup>4</sup> )	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Mississippi.....	7	6	962	3,487	813	1,403	2,068	5,693	( <sup>4</sup> )	1,287	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	West South Central	93	20	5,078	27,357	4,125	8,235	20,510	76,499	( <sup>4</sup> )	1,478	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Oklahoma.....	20	4	403	1,686	313	662	1,159	4,286	( <sup>4</sup> )	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Mountain.....	31	6	470	1,791	367	683	1,194	3,121	( <sup>4</sup> )	( <sup>2</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	Pacific.....	289	81	22,293	120,993	17,449	33,122	87,322	282,584	( <sup>4</sup> )	14,428	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	California.....	256	74	20,778	112,835	16,395	31,093	81,984	268,475	( <sup>4</sup> )	13,788	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3713, Truck and Bus Bodies: New England--Maine, 1 (1-19); Vermont, 1 (1-19); Massachusetts, 16 (100-249); Rhode Island, 5 (20-99); Connecticut, 8 (20-99); East North Central--Indiana, 15 (1,614); Wisconsin, 16 (1,470); West North Central--Missouri, 26 (500-999); North Dakota, 2 (20-99); South Dakota, 1 (1-19); Kansas, 3 (1-19); South Atlantic--West Virginia, 5 (20-99); North Carolina, 12 (500-999); South Carolina, 4 (20-99); East South Central--Tennessee, 9 (100-249); Mississippi, 5 (250-499); West South Central--Arkansas, 4 (100-249); Louisiana, 4 (20-99); Oklahoma, 10 (100-249); Mountain--Idaho, 3 (20-99); Colorado, 3 (20-99); Arizona, 1 (1-19); Utah, 1 (20-99); Nevada, 1 (1-19); Pacific--Washington, 9 (20-99); Oregon, 9 (100-249).

SIC 3715, Truck Trailers: New England--Maine, 1 (1-19); Massachusetts, 3 (20-99); Connecticut, 1 (1-19); East North Central--Indiana, 5 (500-999); Wisconsin, 3 (500-999); West North Central--Minnesota, 2 (250-499); Missouri, 7 (500-999); Nebraska, 3 (500-999); Kansas, 2 (100-249); South Atlantic--Delaware, 1 (20-99); Maryland, 1 (100-249); North Carolina, 3 (20-99); South Carolina, 1 (20-99); Georgia, 3 (500-999); Florida, 2 (100-249); East South Central--Kentucky, 2 (250-499); Tennessee, 2 (20-99); West South Central--Arkansas, 1 (1-19); Oklahoma, 2 (100-249); Texas, 14 (1,159); Mountain--Montana, 1 (1-19); Colorado, 4 (250-499); New Mexico, 1 (20-99); Utah, 1 (1-19); Pacific--Washington, 4 (250-499); Oregon, 5 (100-249).

SIC 3717, Motor Vehicles and Parts: New England--Maine, 2 (1-19); New Hampshire, 1 (1-19); West North Central--Minnesota, 26 (2,597); Missouri, 34 (15,973); North Dakota, 2 (1-19); Nebraska, 2 (100-249); Kansas, 8 (3,179); South Atlantic--Delaware, 3 (4,824); Maryland, 11 (3,766); Virginia, 8 (1,352); West Virginia, 6 (500-999); North Carolina, 14 (500-999); South Carolina, 2 (20-99); Georgia, 23 (7,826); Florida, 13 (100-249); East South Central--Kentucky, 9 (3,111); Tennessee, 21 (2,583); West South Central--Arkansas, 11 (100-249); Louisiana, 8 (20-99); Texas, 54 (4,409); Mountain--Idaho, 2 (20-99); Colorado, 15 (250-499); New Mexico, 1 (1-19); Arizona, 7 (20-99); Utah, 6 (20-99); Pacific--Washington, 18 (1,012); Oregon, 15 (500-999).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Figures omitted due to significant duplication in cost of materials and value of shipments. See text for more detailed explanation.

<sup>5</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification, see table 1A and text of this report).



## MOTOR VEHICLES AND EQUIPMENT

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Table 2A—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3717	Motor vehicles and parts, total <sup>2</sup> .....	1,264	651		3,094,135	421,623	832,838	2,318,958	<sup>r</sup> 6,365,106	( <sup>4</sup> )	311,436	649,274	6,111,554	645,067
	New England.....	37	20	5,332	27,832	4,093	8,261	19,191	49,443	( <sup>4</sup> )	1,038	7,200	84,640	5,690
	Massachusetts..	20	12	2,513	14,049	1,834	3,856	9,478	23,303	( <sup>4</sup> )	577	4,997	68,060	3,073
	Middle Atlantic..	142	71	62,289	365,571	48,881	96,833	273,498	738,058	( <sup>4</sup> )	23,832	71,655	731,789	72,331
	New York.....	71	33	32,814	188,675	25,665	51,404	141,894	351,341	( <sup>4</sup> )	14,494	44,236	385,873	38,914
	New Jersey.....	24	14	13,488	79,028	10,883	21,176	59,448	225,288	( <sup>4</sup> )	4,590	13,552	194,986	12,863
	Pennsylvania...	47	24	15,987	97,868	12,333	24,253	72,156	161,429	( <sup>4</sup> )	4,748	13,866	150,929	20,554
	North Central and South.....	834	497		2,585,145	352,048	696,362	1,942,924	<sup>r</sup> 5,303,746	( <sup>4</sup> )	272,539	547,817	5,074,251	(D)
	Ohio.....	131	96	74,360	458,950	59,062	123,020	344,957	<sup>r</sup> 866,079	( <sup>4</sup> )	85,231	72,475	634,086	61,241
	Illinois.....	108	57	20,590	116,795	16,181	32,842	84,846	<sup>r</sup> 252,117	( <sup>4</sup> )	8,840	16,467	166,790	14,858
	Michigan.....	268	177		1,364,527	181,586	358,867	1,024,149	<sup>r</sup> 2,540,866	( <sup>4</sup> )	98,238	341,905	2,983,120	364,279
	Wisconsin.....	34	23	24,188	133,648	20,811	41,066	110,791	289,794	( <sup>4</sup> )	8,980	19,118	184,621	21,421
	Iowa.....	15	6	520	2,315	440	812	1,799	3,596	( <sup>4</sup> )	( <sup>3</sup> )	669	7,612	335
	Missouri.....	23	15	15,529	80,202	13,188	23,910	63,417	300,128	( <sup>4</sup> )	16,948	14,579	226,606	14,027
	North Carolina.	10	3	746	2,281	624	701	1,669	5,759	( <sup>4</sup> )	( <sup>3</sup> )	584	3,818	373
	Alabama.....	8	4	540	2,452	451	942	1,826	5,049	( <sup>4</sup> )	( <sup>3</sup> )	472	3,017	326
	West.....	251	63	21,287	115,587	16,601	31,382	83,345	273,859	( <sup>4</sup> )	14,027	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
	California.....	208	58	19,709	107,407	15,497	29,271	78,001	259,171	( <sup>4</sup> )	13,397	21,010	211,550	12,106

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup> Revised.<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size for that State.

SIC 3717, Motor Vehicles and Parts: New England—Maine, 2 (1-19); New Hampshire, 1 (1-19); Rhode Island, 4 (250-499); Connecticut, 10 (2,414); North Central and South—Indiana, 76 (41,722); Minnesota, 21 (2,487); North Dakota, 2 (1-19); Nebraska, 2 (100-249); Kansas, 6 (3,025); Delaware, 3 (2,500-4,999); Maryland, 9 (3,745); Virginia, 1 (1,000-2,499); West Virginia, 5 (500-999); South Carolina, 1 (1-19); Georgia, 15 (7,561); Florida, 9 (20-99); Kentucky, 7 (3,093); Tennessee, 17 (2,353); Mississippi, 6 (500-999); Arkansas, 4 (100-249); Louisiana, 4 (20-99); Oklahoma, 14 (100-249); Texas, 35 (3,953); West—Idaho, 1 (1-19); Colorado, 12 (100-249); Arizona, 5 (20-99); Utah, 3 (1-19); Washington, 11 (500-999); Oregon, 11 (250-499).

<sup>2</sup>See footnote 7 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.<sup>3</sup>Less than \$500 thousand.<sup>4</sup>Figures omitted due to significant duplication in cost of materials and value of shipments. See text for more detailed explanation.<sup>5</sup>This region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

(For explanation of column captions, see Introduction)

Item	Truck and bus bodies (SIC 3713)	Truck trailers (SIC 3715)	Motor vehicles and parts (Census code 3717)
Primary product specialization ratio <sup>1</sup> .....	87	84	( <sup>3</sup> )
Coverage ratio <sup>2</sup> .....	87	93	( <sup>3</sup> )
Number of establishments, total.....	562	170	1,551
With 1-19 employees.....	375	77	807
With 20-99 employees.....	147	54	333
With 100 employees or more.....	40	39	411
Proprietors and working partners.....Number...	345	63	598
All employees:			
Number (average for the year).....	20,009	15,669	541,510
Payroll.....\$1,000...	91,374	78,142	3,148,590
Production workers:			
Number (average for the year).....	15,938	12,090	443,012
January.....	15,237	11,061	542,649
February.....	15,135	10,530	492,359
March.....	15,484	10,647	446,492
April.....	16,115	10,897	405,754
May.....	16,275	11,242	406,766
June.....	16,916	11,420	397,368
July.....	17,089	11,983	380,703
August.....	16,956	12,392	351,819
September.....	16,297	12,827	407,384
October.....	15,237	13,679	299,550
November.....	15,261	14,102	515,886
December.....	15,477	14,335	515,574
Man-hours.....1,000...	30,741	24,564	849,936
January-March.....do....	7,149	5,361	228,103
April-June.....do....	8,064	5,789	192,781
July-September.....do....	7,963	6,177	180,609
October-December.....do....	7,294	7,192	247,813
Wages.....1,000...	65,405	55,390	2,357,496
Cost of materials, etc., total.....do....	163,674	206,258	r ( <sup>5</sup> )
Materials, parts, containers, and supplies consumed.....do....	146,228	194,506	r ( <sup>5</sup> )
Cost of resales.....do....	12,230	8,692	141,141
Fuels consumed.....do....	1,238	878	60,899
Electricity purchased.....do....	1,750	1,181	79,277
Contract work.....do....	2,228	1,001	25,355
Value of shipments (including resales), total.....do....	307,769	334,724	r ( <sup>5</sup> )
Value of resales.....do....	15,323	10,500	180,717
Value added by manufacture, adjusted.....do....	145,608	131,140	r 6,473,927
Manufacturers' inventories:			
Beginning of year, total.....do....	61,135	76,146	2,003,005
Finished products.....do....	11,281	7,970	342,808
Work-in-process.....do....	21,624	8,662	839,365
Materials, supplies, fuel, etc.....do....	28,230	59,514	820,832
End of year, total.....do....	61,164	80,166	1,780,205
Finished products.....do....	11,921	7,338	311,099
Work-in-process.....do....	22,497	11,969	773,562
Materials, supplies, fuel, etc.....do....	26,746	60,859	695,544
Expenditures for plant and equipment, total.....do....	3,979	4,926	364,088
New, total.....do....	3,627	4,638	314,646
New structures and additions to plant.....do....	1,597	920	51,954
New machinery and equipment.....do....	2,030	3,718	262,692
Used plant and equipment.....do....	352	288	49,442

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Primary product specialization ratio is over 90%. The exact percentage is not meaningful because of duplication in the value of shipments. See introductory text for this industry. The minimum percentage of 90 is based on a total value of shipments of primary products (excluding parts and attachments) made in this industry amounting to over \$11 billion and a value of shipments of secondary products amounting to \$781 million. Corresponding figures for 1954 were approximately the same. See text for explanation.

<sup>4</sup>The number of production workers for the months of January, February, April, June, July, September, October, and December have been adjusted to include the production workers now classified in Industry 3717 but formerly classified in Industries 3599, 3566 and 2399 (See table 1A and text for more detailed explanation). The adjustments were made on the basis of the complete coverage of production workers collected for the months of March, May, August and November.

<sup>5</sup>Withheld because of extensive duplication.



# MOTOR VEHICLES AND EQUIPMENT

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Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3713	Truck and bus bodies: Number of establishments.....	562	154	108	113	107	40	24	11	5	...	...
	All employees:											
	Number.....	20,009	347	751	1,565	3,201	2,821	3,714	4,132	3,478	...	...
	Payroll.....\$1,000..	91,374	1,235	3,127	6,651	14,539	14,007	16,982	18,333	16,500	...	...
	Value added, adjusted..do....	145,608	2,380	4,949	10,659	21,731	23,363	26,001	31,598	24,927	...	...
	Value of shipments.....do....	307,769	5,236	10,975	22,880	48,117	46,199	58,474	61,368	54,520	...	...
	Capital expend., new...do....	3,627	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	554	501	582	540	715	...	...
3715	Truck trailers: Number of establishments.....	170	31	20	26	30	24	22	9	8	...	...
	All employees:											
	Number.....	15,669	74	135	381	1,003	1,711	3,837	2,924	5,604	...	...
	Payroll.....\$1,000..	78,142	258	607	1,995	4,718	8,660	18,240	14,840	28,824	...	...
	Value added, adjusted..do....	131,140	608	979	2,642	6,577	14,831	33,272	24,118	48,113	...	...
	Value of shipments.....do....	334,724	1,410	2,585	8,410	17,897	35,321	80,319	55,744	133,038	...	...
	Capital expend., new...do....	4,638	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	941	692	( <sup>1</sup> )	2,211	...	...
3717	Motor vehicles and parts: Number of establishments.....	1,551	411	191	205	212	121	113	79	62	97	60
	All employees:											
	Number.....	541,510	884	1,288	2,880	6,723	8,483	18,480	27,715	44,856	163,725	266,476
	Payroll.....\$1,000..	3,148,590	3,375	5,755	11,879	33,015	39,561	92,629	151,875	249,295	970,397	1,590,809
	Value added, adjusted..do....	6,473,927	8,838	12,063	24,342	61,397	71,989	171,273	253,402	474,751	2,174,533	3,221,339
	Value of shipments.....do....	r(2)	r(2)	r(2)	r(2)	r(2)	r(2)	r(2)	r(2)	r(2)	r(2)	r(2)
	Capital expend., new...do....	314,646	1,263	947	1,373	2,975	2,537	7,351	13,811	18,458	140,407	125,522

<sup>1</sup>Revised.

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>Value of shipments for Industry 3717 omitted because of duplication. See text for explanation.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3713	Truck and bus bodies.....1958.. 1954..	307,769 232,514	242,010 186,271	36,131 30,860	29,628 27,609	87 86	277,558 215,184	242,010 186,271	35,548 28,913	87 87
3715	Truck trailers.....1958.. 1954..	334,724 305,510	264,550 244,766	48,483 52,331	21,691 19,735	84 82	283,998 262,012	264,550 244,766	19,448 17,246	93 93
3717	Motor vehicles and parts.....1958..	( <sup>3</sup> )	( <sup>3</sup> )	780,958	338,641	( <sup>4</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Omitted because of duplication in the value of shipments. See introductory text for this industry.

<sup>4</sup>Over 90 percent. The exact percentage is not meaningful because of duplication in the value of shipments. See introductory text for this industry. The minimum percentage of over 90 is based on a total value of shipments of primary products (excluding parts and attachments) made in this industry, amounting to over \$11 billion and a value of shipments of secondary products amounting to \$781 million in 1958. Corresponding figures for 1954 were approximately the same.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Truck and bus bodies industry	Truck and bus bodies (SIC 3713)	Other industries	All industries	Prod. class code	Motor vehicles and parts industry	Motor vehicles and parts (Census code 3717)	Other industries	All industries
	Total shipments and receipts of the industry.....	307,769	xxx	xxx		Total shipments and receipts of the industry.....	( <sup>3</sup> )	xxx	xxx
37130	Truck and bus bodies.....	242,010	<sup>1</sup> 35,548	277,558		Selected primary products.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Secondary products.....	36,131	xxx	xxx	37171	Passenger cars, knocked down or assembled.....	9,217,694	xxx	9,217,694
37150	Truck trailers.....	10,787	xxx	xxx	37172	Truck tractor, truck chassis and trucks (chassis of own manufacture)	1,931,057	( <sup>4</sup> )	1,931,057
37175	Parts and accessories for passenger cars, trucks, and busses shipped to: Motor vehicle manufacturers.....	4,756	xxx	xxx	37173	Motor coaches (except trolley busses) and fire department vehicles (chassis of own manufacture).....	99,216	( <sup>4</sup> )	99,216
37176	Other than motor vehicle manufacturers.....	8,816	xxx	xxx		Secondary products.....	<sup>7</sup> 780,958	xxx	xxx
	All other secondary products.....	11,772	xxx	xxx	19--	Ordnance and accessories.....	20,693	xxx	xxx
	Miscellaneous receipts.....	29,628	xxx	xxx	34291	Transportation equipment hardware...	4,268	xxx	xxx
	Contract work.....	1,999	xxx	xxx	34612	Job stampings, except automotive...	4,311	xxx	xxx
	Resales.....	15,323	xxx	xxx	34613	Job stampings, automotive.....	71,975	xxx	xxx
	Other.....	12,306	xxx	xxx	35197	Parts and accessories for internal combustion engines.....	17,523	xxx	xxx
Prod. class code	Truck trailers industry	Truck trailers (SIC 3715)	Other industries	All industries	35222	Wheel tractors and parts.....	11,869	xxx	xxx
	Total shipments and receipts of the industry.....	334,724	xxx	xxx	35228	Other farm machinery and equipment..	9,451	xxx	xxx
37150	Truck trailers.....	264,550	<sup>2</sup> 19,448	283,998	35313	Parts for tracklaying and contractors off-highway wheel tractors....	10,797	xxx	xxx
	Secondary products.....	48,483	xxx	xxx	35318	Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons.....	15,320	xxx	xxx
37130	Truck and bus bodies.....	7,211	xxx	xxx	35661	Plain bearings and bushings.....	13,563	xxx	xxx
	Parts and accessories for passenger cars, trucks, and busses shipped to: Motor vehicle manufacturers.....	10,833	xxx	xxx	35690	General industrial machinery.....	2,351	xxx	xxx
37175	Other than motor vehicle manufacturers.....	12,132	xxx	xxx	35990	Machinery and parts, nec.....	5,055	xxx	xxx
37176	All other secondary products.....	18,307	xxx	xxx	37130	Truck and bus bodies.....	12,612	xxx	xxx
	Miscellaneous receipts.....	21,691	xxx	xxx	37224	Aircraft engine parts.....	36,075	xxx	xxx
	Contract work.....	1,726	xxx	xxx	37291	Aircraft parts.....	3,335	xxx	xxx
	Resales.....	10,500	xxx	xxx		All other secondary products.....	<sup>5</sup> 41,760	xxx	xxx
	Other.....	9,465	xxx	xxx		Miscellaneous receipts.....	338,641	xxx	xxx
						Contract work.....	11,497	xxx	xxx
						Resales.....	180,717	xxx	xxx
						Other miscellaneous receipts.....	146,427	xxx	xxx

<sup>7</sup>Revised.

<sup>1</sup>Includes shipments of \$4,099 thousand by Industry 3531, Construction Machinery, \$7,211 thousand by Industry 3715, Truck Trailers, and \$12,612 thousand by Industry 3717, Motor Vehicles and Parts.

<sup>2</sup>Includes shipments of \$10,787 thousand by Industry 3713, Truck and Bus Bodies.

<sup>3</sup>Omitted because of duplication in the value of products. Also, no data are shown for motor vehicle parts as most of this value would be duplicated in the other primary products listed. See Introductory text for this industry.

<sup>4</sup>The value of truck tractors, truck chassis, trucks and motor coaches classified in other industries is included with shipments of the Motor Vehicle and Parts Industry to avoid disclosing operations of individual companies.

<sup>5</sup>Of this figure 62 percent consists of the following product classes: 34521, Bolts, nuts, and other standard industrial fasteners; 34930, Steel springs; 35192, Diesel and semi-Diesel engines; 35314, Power cranes; 35441, Special dies and tools, die sets, jigs, and fixtures; and 36944, Spark plugs.



## MOTOR VEHICLES AND EQUIPMENT

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Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3713---	Truck and bus bodies, total.....	xxx	277,558	xxx	216,660
	Truck and bus bodies for sale separately: <sup>1</sup>				
	Sold to motor vehicle manufacturers:				
3713012	Truck (platform, stake, van, tank, dump, etc.) and bus.....	xxx	14,543	xxx	(NA)
	Sold to other than motor vehicle manufacturers:				
	Truck:				
3713031	Van.....	15,585	22,866	15,304	21,856
3713032	Panel, sedan delivery; pick-up.....	6,310	7,646	18,694	16,126
3713033	Dump.....	21,388	18,079	*37,456	*20,063
3713034	Stake and platform.....	19,483	6,768	*23,479	*8,426
3713041	Other including tank.....	xxx	48,628	xxx	54,795
3713051	Bus.....	20,455	45,202	19,981	32,741
3713060	Truck and bus bodies for sale separately, nsk.....	xxx	33,209	xxx	22,808
	Vehicles, except passenger cars, produced on purchased chassis, including value of chassis:				
3713071	Ambulances.....	1,134	7,675	1,498	8,717
3713075	Hearses and undertakers' wagons.....	1,170	9,438	795	4,542
3713077	Fire department vehicles <sup>2</sup> .....	1,038	11,380	1,006	8,351
3713079	Motor busses, including military, but excluding trolley busses..	2,514	7,920	460	4,101
3713098	All other highway vehicles, including trucks (platform, stake, van, tank, dump, etc.), street cleaning apparatus, rotary and blower type snow plows, pick-up sweepers, noncombat amphibious vehicles, etc.....	xxx	18,427	xxx	14,134
3713099	Vehicles, except passenger cars produced on purchased chassis, (including value of chassis) nsk.....	xxx	7,327	xxx	(NA)
3713000	Truck and bus bodies, nsk.....	xxx	18,450	xxx	(NA)
3715---	Truck trailers, total.....	xxx	283,998	xxx	262,012
	Truck trailers (5 ton capacity and over) as reported in Census of Manufactures.....	xxx	270,521	xxx	240,342
	Truck trailers (5 ton capacity and over) as reported on 1958 Census Form M37L.....	53,728	380,095	54,537	245,227
	Complete trailers, total <sup>3</sup> .....	48,507	264,527	52,243	238,786
	Vans, total.....	26,198	151,550	25,732	130,887
	Insulated and refrigerated:				
3715012	Steel.....	376	2,918	831	4,436
3715013	Aluminum.....	3,135	24,582	3,419	21,911
	Semi-insulated:				
3715014	Steel.....	124	814	(4)	(4)
3715015	Aluminum.....	394	2,582		
	Furniture:				
3715016	Steel.....	1,325	5,793	1,061	3,684
3715017	Aluminum.....	160	738	80	335
	All other closed-top vans:				
3715018	Steel.....	6,189	28,864	46,733	430,828
3715019	Aluminum.....	12,122	73,112	411,422	460,187
	Open-top:				
3715020	Steel.....	1,016	4,690	1,070	4,080
3715021	Aluminum.....	1,357	7,457	1,116	5,426
	Tanks, total.....	5,635	47,640	6,087	50,019
	Non- and low-pressure:				
	Petroleum:				
3715022	Carbon and alloy steel (except stainless).....	2,329	15,158	5,433	44,869
3715023	Stainless steel.....	227	2,550		
3715024	Aluminum.....	1,454	13,339		
3715025	Chemical, food, sanitary, and fluid solids.....	545	6,009	654	5,150
3715026	All other (including aircraft refuelers and cement bulkers).....	704	6,155		
3715027	High pressure (LPG, chemical, etc.).....	376	4,429		
	Pole, pipe, and logging, total.....	927	2,577	1,396	3,629
3715028	Single axle.....	318	424	599	851
3715029	Tandem axle.....	609	2,153	797	2,778
	Platforms, total.....	8,868	32,078	7,006	25,052
3715030	Racks, live stock and stake.....	1,442	6,556	888	3,259
3715031	Grain bodies, all types.....	1,073	3,718	785	3,004
3715032	Platforms (flats), all types.....	6,353	21,804	5,333	18,789
3715033	Low-bed heavy haulers.....	2,301	9,779	3,090	11,123
3715034	Dump trailers.....	2,548	11,401	996	4,113
3715035	All other trailers <sup>5</sup> .....	2,030	9,502	7,936	13,963
3715051	Trailer chassis only, for sale separately.....	3,244	8,362	2,294	6,441
3715053	Detachable trailer van bodies, for sale separately.....	1,977	7,206	(NA)	(NA)
3715055	Truck trailers and truck trailer chassis with axles rated less than 10,000 pounds.....	6,230	13,477	17,811	21,669

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3717----	Motor vehicles and parts.....	xxx	( <sup>6</sup> )	xxx	( <sup>6</sup> )
37171--	Passenger cars, knocked down or assembled and chassis for sale separately.....	xxx	9,217,694	xxx	9,471,779
3717111	Complete vehicles, knocked-down or assembled <sup>7</sup> .....	4,204,203	9,212,591	5,528,103	9,466,599
3717151	Chassis for sale separately.....	xxx	5,103	xxx	5,180
37172--	Truck tractors, truck chassis and trucks (chassis of own manufacture).....	xxx	1,931,057	xxx	1,732,114
	Trucks, truck tractors, and truck chassis, knocked-down or assembled: <sup>8</sup>				
	Basic chassis, gross vehicle weight: <sup>9</sup>				
3717201	6,000 pounds and less.....	583,045	754,931	705,541	728,323
3717203	6,001-10,000 pounds.....				
3717213	10,001-14,000 pounds.....	64,560	117,417	50,896	71,295
3717214	14,001-16,000 pounds.....				
3717215	16,001-19,500 pounds.....	79,696	154,040	139,707	193,039
3717216	19,501-26,000 pounds.....	44,738	142,189	47,264	114,540
3717217	26,001-33,000 pounds.....	58,515	429,376	40,539	110,217
3717218	Over 33,000 pounds.....				
3717231	Bodies and other equipment billed with basic chassis <sup>9</sup> .....	xxx	318,276	xxx	259,858
3717251	Other highway vehicles on chassis of own manufacture including noncombat amphibious vehicles.....	xxx	14,828	xxx	58,383
37173--	Motor coaches (except trolley busses), and fire department vehicles (chassis of own manufacture).....	xxx	99,216	xxx	103,496
3717311	Motor busses, including military, but excluding trolley busses (includes all coaches or coach chassis delivered to common carriers or franchised operators for city, intercity, charter hire or sight-seeing use. Includes integral type school coaches, but excludes other types of school busses or school bus chassis).....	3,311	81,018	4,009	78,634
3717321	Fire department vehicles <sup>10</sup> .....	1,262	18,198	*1,628	*24,862
3717411	Combat vehicles, wheeled tactical vehicles or carriers.....	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )
3717600	Replacement parts and accessories for passenger cars, trucks, busses, and trailers <sup>12</sup> .....	xxx	1,903,427	xxx	1,641,229
3717711	Rebuilt motor vehicle engines and parts (except carburetors).....	xxx	79,891	xxx	56,683

NA Not available. \*Revised.

<sup>1</sup>Truck and bus bodies built by garages, service stations and other establishments primarily engaged in nonmanufacturing activities are excluded from both 1958 and 1954 data. It is believed that a substantial number of truck bodies are built by such nonmanufacturing establishments.<sup>2</sup>Separate figures are shown for fire department vehicles produced on purchased chassis (code 3713077) and for fire department vehicles produced on chassis of own manufacture (code 3717321). A small number of fire department vehicles, however, are produced on a chassis furnished by customers. Figures for such vehicles are included in the value of bodies for sale to other than motor vehicle manufacturers (code 3713041).<sup>3</sup>For 1958, complete truck trailers include truck trailers produced on purchased chassis. For 1954, truck trailers produced on purchased chassis were excluded from M45F (Now M37L) survey.<sup>4</sup>Semi-insulated steel and aluminum vans were included with all other closed top vans in 1954.<sup>5</sup>Includes small capacity trailers of special construction of Defense Department, as well as off-highway, auto transport, public utility trailers, converter dollies, and hoppers.<sup>6</sup>Total value of shipments figure omitted because of extensive duplication resulting from the use of products of certain establishments as materials by others (see text for more detailed explanation). Also, data are only shown for the value of shipments of replacement parts inasmuch as a total value of all motor vehicle parts would be largely duplicated.<sup>7</sup>Includes station wagons, ambulances, hearses, and taxicabs if produced on passenger car chassis. Value includes extra equipment billed with vehicles.<sup>8</sup>Includes trucks such as pick-up, sedan delivery, panel, or other commercial cars made on passenger car chassis if these chassis were of own manufacture. Includes station wagons, hearses, and taxicabs if produced on truck chassis. Includes all truck chassis whether or not to be used for transportation of property, such as fire apparatus, street sprinklers, school busses, ambulances, etc. Excludes specialized road construction machinery and off-the-highway trucks.<sup>9</sup>The sum of values reported for basic chassis and bodies (codes 3717201 through 3717218) and bodies and other equipment billed with basic chassis (code 3717231) represents the total value received from the sale of trucks, truck tractors, and truck chassis. Amounts reported for basic chassis values are based on average wholesale prices realized during 1958 and 1954. The amount reported for bodies and other equipment billed with basic chassis represents (1) the value received for bodies and other equipment shipped with the basic chassis; and (2) any plus or minus differences not included in the amounts reported for basic chassis due to the use of average wholesale prices for computing the values of the basic chassis.<sup>10</sup>Separate figures are shown for fire department vehicles produced on purchased chassis (code 3713077) and for fire department vehicles produced on chassis of own manufacture (code 3717321). A small number of fire department vehicles, however, are produced on chassis furnished by customers.<sup>11</sup>Withheld for security reasons, on advice from the Bureau of the Budget.<sup>12</sup>This figure includes parts with codes outside the 3717 grouping. It includes the value of motor vehicle replacement parts such as spark plugs, ignition coils, storage batteries, carburetors, pistons and piston rings, headlights, fan belts, springs, hardware, mufflers, radiators and cores, water and fuel pumps, wheels, universal joints, cylinder heads, hub and drum assemblies, transmissions, shock absorbers, rear axle shafts, and clutch disc and facing assemblies. This figure represents the shipments of these parts by parts manufacturers to other than motor vehicle manufacturers and shipment of replacement parts by motor vehicle manufacturers, including parts which they purchased and resold in the same condition. No duplication is involved since parts manufacturers reported separately parts shipped to motor vehicle manufacturers and the latter figure is not included in this total. Value of shipments of tires and tubes and motor vehicle accessories such as radios, heaters, etc., are not included in this figure.



Table 6B.--Production and Use of Parts for Passenger Cars, Trucks, and Busses: 1958 and 1954

Product	Total number of units (1,000)					
	1958			1954		
	Produced	Used in assembly of new vehicles	For replacement, export, and other purposes <sup>1</sup>	Produced	Used in assembly of new vehicles	For replacement, export, and other purposes <sup>1</sup>
Engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories):						
Gasoline.....	5,370	5,032	338	6,999	6,543	456
Diesel and semi-Diesel.....	31	25	6	16	13	3
Carburetors.....	9,750	5,032	4,718	11,269	6,543	4,726
Piston rings:						
Oil type.....	135,312	37,295	98,017	223,897	60,233	163,664
Compression.....	307,897	73,035	234,862	353,014	93,410	259,604
Fuel pump assemblies (excluding kits and rebuilds).....	9,468	5,057	4,411	11,960	6,556	5,404
Water pump assemblies (excluding kits and rebuilds).....	6,875	5,057	1,818	9,055	6,556	2,499
Ignition coils.....	8,171	5,032	3,139	10,809	6,543	4,266
Spark plugs.....	396,064	38,040	358,024	350,727	46,411	304,316
Oil filter elements.....	99,377	5,032	94,345	(NA)	(NA)	(NA)
Mufflers (exhaust).....	30,686	6,946	23,740	25,606	6,802	18,804
Muffler tail pipes.....	29,059	6,946	22,113	21,615	6,802	14,813
Radiators, complete.....	5,351	5,057	294	7,856	6,556	1,300
Regulators for battery charging generators:						
Passenger car and light truck type <sup>2</sup> .....	10,231	4,740	5,491	9,773	(NA)	(NA)
Heavy duty truck and bus type <sup>2</sup> .....	1,121	409	712	365	(NA)	(NA)
Condensers <sup>2</sup> .....	39,934	6,830	33,104	27,676	(NA)	(NA)
Breaker point sets:						
Contact arms <sup>2</sup> .....	49,726	3,690	46,036	39,637	(NA)	(NA)
Contact supports and screws <sup>2</sup> .....	34,926	3,690	31,236	34,698	(NA)	(NA)
Wheels for passenger cars.....	28,707	22,101	6,606	(NA)	(NA)	(NA)
Transmissions (except auxiliary):						
Passenger car type:						
Conventional transmissions.....	1,174	1,038	136	2,292	2,239	53
Automatic transmissions (including semiautomatic).....	3,383	3,224	159	3,929	3,311	618
Truck and bus type:						
Conventional transmissions.....	983	916	67	1,136	967	169
Automatic transmissions (including semiautomatic).....	49	22	27	66	39	27
Universal joints.....	13,904	11,569	2,335	13,645	8,727	4,918
Rear axle shafts.....	9,940	9,304	636	(NA)	(NA)	(NA)
Clutch disc and facing assemblies.....	8,932	1,954	6,978	8,106	3,206	4,900
Headlights, sealed beam units.....	53,050	19,724	33,326	31,838	13,112	18,726

NA Not available.

<sup>1</sup>The number of motor vehicle parts for the replacement and export markets was derived from the figures on "Total number of units produced" reported by parts producers and motor vehicle manufacturers and the figure on "Total number of units used in the assembly of new vehicles" reported by motor vehicle producers. Only new parts are included; rebuilt engines, carburetors, pistons, etc., are excluded.

<sup>2</sup>For these products, total number of units shipped were used instead of total number of units produced.

Table 6C.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	
<u>Truck and bus bodies (37130):</u>		<u>Passenger cars, knocked down and assembled</u>		
<u>United States, total:</u>		<u>(37171):</u>		
1958.....	277,558	<u>United States, total:</u>		
	1958 <sup>1</sup>	1958.....	9,217,694	
New England.....	3,902	1957.....	13,283,420	
Massachusetts.....	2,356	1956.....	11,486,491	
Middle Atlantic.....	50,713	1955.....	14,900,729	
New York.....	26,320	1954.....	9,471,779	
New Jersey.....	8,335	1953.....	10,586,006	
Pennsylvania.....	16,058	1952.....	7,433,993	
East North Central.....	121,468	1951.....	8,011,709	
Ohio.....	58,558	1950.....	9,395,279	
Indiana.....	24,674	1949.....	7,202,722	
Illinois.....	16,679	1947.....	4,085,547	
Michigan.....	7,742		1958 <sup>1</sup>	1954
Wisconsin.....	13,814	East North Central.....	4,425,031	( <sup>2</sup> )
West North Central.....	25,880	Michigan.....	3,061,365	3,501,985
Minnesota.....	4,173	All other regions.....	4,792,663	5,969,794
Iowa.....	2,636		Value of shipments	
Missouri.....	16,858	<u>Truck tractor, truck chassis and trucks (37172):</u>		
Nebraska.....	1,337	<u>United States, total:</u>		
South Atlantic.....	23,776	1958.....	1,931,057	
Maryland.....	1,194	1957.....	2,305,946	
Virginia.....	1,868	1956.....	2,319,379	
North Carolina.....	7,975	1955.....	2,176,607	
Georgia.....	8,091	1954.....	1,732,114	
Florida.....	2,986	1953.....	2,213,215	
East South Central.....	11,861	1952.....	2,390,082	
Kentucky.....	1,767	1951.....	2,456,076	
Alabama.....	2,137	1950.....	1,796,919	
West South Central.....	12,174	1949.....	1,539,498	
Oklahoma.....	2,187	1947.....	1,619,773	
Texas.....	6,491		1958 <sup>1</sup>	1954
Mountain.....	2,939	Middle Atlantic.....	312,255	286,481
Pacific.....	24,845	New York.....	66,497	101,971
Oregon.....	1,643	East North Central.....	1,010,684	995,448
California.....	22,227	Ohio.....	351,401	275,405
		Indiana.....	166,745	( <sup>2</sup> )
		Michigan.....	354,896	493,103
		Pacific.....	176,111	( <sup>2</sup> )

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 37130, Tennessee, Mississippi, Arkansas, Louisiana, and Colorado; 37172, Connecticut, New Jersey, Pennsylvania, Illinois, Wisconsin, Minnesota, Missouri, Maryland, Virginia, Georgia, Kentucky, Texas, Washington, Oregon, and California.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.



## MOTOR VEHICLES AND EQUIPMENT

37A-15

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Description of material	Unit of measure	1958		1954		1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3713—TRUCK AND BUS BODIES				INDUSTRY 3715—TRUCK TRAILERS			
	Materials, parts, containers and supplies, total.....		xxx	145,977	xxx	115,107	xxx	192,664	xxx	186,125
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons	11,062	2,046	32,300	3,520	10,236	1,726	10,580	1,466
331212	Sheet and strip.....	do.	119,667	18,624	128,571	15,990	55,461	8,748	80,508	11,066
331213	Plates.....	do.	20,767	3,101	13,425	1,794	25,331	3,889	25,940	3,146
331215	Structural shapes.....	do.	12,163	1,987	11,589	1,538	18,984	3,258	15,963	2,051
331217	Wire and wire products.....	do.	1,015	348	630	232	194	83		
331219	All other carbon steel mill shapes and forms.....	do.	5,533	1,042	4,054	834	6,110	1,587	3,099	687
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.	838	480	532	175	3,046	488	18,457	3,087
331225	All other alloy steel mill shapes and forms.....	do.	1,016	246	491	121	4,801	982	4,276	1,235
331231	Stainless steel mill shapes and forms.....	do.	694	846	310	384	1,056	1,234	205	268
	Copper and copper-base alloy:									
363111	Insulated wire and cable.....	1,000 lbs. copper content..	165	85	605	352	148	122	201	155
335111	Bare wire for electrical conduction.....	1,000 lbs.					xxx	xxx	xxx	xxx
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.	407	461			259	159	1,810	1,011
	Aluminum and aluminum-base alloy mill shapes and forms:									
335257	Sheet, plate and foil.....	do.	5,912	3,363	7,865	3,837	27,849	13,860	49,525	24,073
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.	1,686	900			19,958	9,469		
	Castings (rough and semifinished received from foundry):									
332011	Iron (gray and malleable).....	Short tons	1,378	516	2,424	735	668	310	2,088	746
332311	Steel.....	do.	1,280	446	1,649	824	5,197	3,039	5,319	2,891
336121	Copper and copper-base alloy.....	1,000 lbs.	109	148	134	109	xxx	xxx	xxx	xxx
336111	Aluminum and aluminum-base alloy.....	do.	151	155	382	235	281	315	1,073	838
339111	Iron and steel forgings.....	Short tons	xxx	xxx	xxx	xxx	68	144	(NA)	(NA)
359311	Ball and roller bearings.....	xxx	xxx	140	xxx	191	xxx	651	xxx	1,007
229511	Coated fabrics.....	1,000 lbs. lin. yds.	440	522	(NA)	(NA)	xxx	xxx	xxx	xxx
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	85,629	xxx	84,236	xxx	124,946	xxx	132,398
973000	Materials, supplies, containers, nsk.....		xxx	24,892	(NA)	(NA)	xxx	17,654	(NA)	(NA)
			1958				1954			
			Quantity		Delivered cost (\$1,000)		Quantity		Delivered cost (\$1,000)	
			INDUSTRY 3717—MOTOR VEHICLES AND PARTS							
	Materials, parts, containers and supplies, total.....		xxx	(1)			xxx	(1)		
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons		770,277		126,930		1,170,587		153,579
331212	Sheet and strip.....	do.		6,615,120		934,845		7,042,794		828,672
331213	Plates.....	do.		220,096		33,043		213,322		26,515
331215	Structural shapes.....	do.		44,815		9,460		35,362		6,572
331217	Wire and wire products.....	do.		95,792		22,080		57,974		12,995
331219	All other carbon steel mill shapes and forms.....	do.		122,071		32,031		174,220		29,156
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.		334,202		70,211		631,597		107,318
331225	All other alloy steel mill shapes and forms.....	do.		162,490		35,252		83,136		17,763
331231	Stainless steel mill shapes and forms.....	do.		24,231		26,781		36,082		32,990
	Copper and copper-base alloy:									
335111	Bare wire for electrical conduction.....	1,000 lbs.		1,560		770				
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.) (except insulated wire and cable).....	do.					193,249		89,268	
				167,955		78,078				

See footnotes at end of table.

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Description of materials	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3717—MOTOR VEHICLES AND PARTS—Continued			
	Mill shapes and forms (except castings)—Continued					
335257	Aluminum and aluminum-base alloy:	1,000 lbs.	19,162	10,761	36,600	16,764
335259	Sheet, plate and foil.....					
	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)....	....do....	31,123	11,391		
	Primary metals, (ingot, pig, etc.):					
331251	Pig iron.....	Short tons	222,568	15,447	289,646	17,216
333411	Aluminum and aluminum-base alloy refinery shops.....	....do....	2,425	1,622	8,147	3,522
	Scrap:					
941011	Iron and steel.....	....do....	409,387	9,541	225,204	6,233
941031	Aluminum and aluminum-base alloy.....	....do....	3,920	1,773	580	357
	Castings (rough and semifinished received from foundry):					
332011	Iron (gray and malleable) <sup>2</sup> .....	....do....	1,907,070	466,939	2,320,498	499,418
332311	Steel.....	....do....	62,827	23,349	63,944	24,786
336121	Copper and copper-base alloy.....	1,000 lbs.	4,037	2,487	8,118	4,759
336111	Aluminum and aluminum-base alloy.....	....do....	146,993	71,612	145,925	80,333
339111	Iron and steel forgings.....	Short tons	654,194	221,968	(NA)	(NA)
361419	Fractional horsepower electric motors excluding timing motors, synchronous and subsynchronous (under 1 horsepower).....	1,000.....	6,726	22,126	(NA)	(NA)
359311	Ball and roller bearings.....	.....	xxx	90,264	xxx	78,476
229511	Coated fabrics.....	1,000 lin. yds.	11,026	18,051	(NA)	(NA)
	Uncoated broad-woven fabrics (piece goods):					
223331	Cotton.....	....do....	2,912	2,469	(NA)	(NA)
223451	Other broad-woven fabrics.....	....do....	3,327	9,294	(NA)	(NA)
970099	All other materials, and components, parts, containers and supplies consumed.....	.....	xxx	r(1)	xxx	r(2)

NA Not available. <sup>r</sup>Revised.<sup>1</sup>Omitted due to significant duplication in cost of materials.<sup>2</sup>In addition establishments in Industry 3717 produced <sup>r</sup>479,177 tons of iron castings in 1958 for incorporation into other items produced at the same establishment. In 1954 this figure was 621,948 tons.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3713	TRUCK AND BUS BODIES (entire industry).....	562	20,009	91,374	15,938	30,741	65,405	145,608	163,674	307,769	3,627
	Establishments with:										
	90% or more specialization.....	469	12,807	56,560	10,332	19,651	41,458	91,945	104,479	196,361	2,617
	75-89% specialization.....	40	2,268	10,896	1,756	3,437	7,559	19,775	19,110	37,684	( <sup>1</sup> )
3715	TRUCK TRAILERS (entire industry).....	170	15,669	78,142	12,090	24,564	55,390	131,140	206,258	334,724	4,638
	Establishments with:										
	90% or more specialization.....	104	8,058	39,986	6,305	12,606	29,248	65,400	109,646	173,823	3,206
	75-89% specialization.....	27	3,853	18,555	2,931	5,938	12,937	27,973	46,188	74,526	776
3717	MOTOR VEHICLES AND PARTS (entire industry).....	1,551	541,510	3,148,590	430,192	849,936	2,357,496	6,473,927			314,646
	Establishments with:										
	90% or more specialization.....	1,323	435,892	2,518,834	348,310	685,377	1,901,908	5,452,615	( <sup>2</sup> )	( <sup>2</sup> )	248,229
	75-89% specialization.....	84	44,964	277,319	34,785	70,666	201,183	448,107			24,769
37171	Passenger cars, knocked down or assembled and chassis for sale separately (primary product class of estab.).....	54	147,329	839,196	118,165	224,227	636,988	2,426,187	7,934,179	387,038	98,220
37172	Truck tractors, truck chassis and trucks (primary product class of estab.).....	35	36,108	207,670	26,472	50,365	141,599	460,986	1,169,565	1,632,340	17,389
	Establishments with:										
	90% or more specialization...	18	7,634	46,923	5,765	11,470	31,135	104,834	318,651	404,546	6,468

<sup>1</sup>Revised.

<sup>2</sup>Less than \$500 thousand.

<sup>2</sup>Omitted because of extensive duplication. See text for explanation.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3713--TRUCK AND BUS BODIES								
Nonferrous foundry (except die casting).....	2	2	...	...	(D)	(D)	...	...
Nonferrous die casting.....	2	1	1	...	(D)	(D)	(D)	...
Forging.....	5	3	1	1	82	(D)	(D)	(D)
Electroplating.....	1	1	...	...	(D)	(D)	...	...
Galvanizing and other hot dip coating.....	1	1	...	...	(D)	(D)	...	...
Heat treating and annealing.....	5	4	1	...	17	(D)	(D)	...
Automatic screw machine department.....	1	...	1	...	(D)	...	(D)	...
Machine shop.....	55	24	23	8	614	51	201	362
Tool and die shop.....	21	10	9	2	128	21	(D)	(D)
Foundry pattern shop.....	10	7	2	1	55	15	(D)	(D)
Plate or structural fabrication.....	72	22	29	21	1,536	56	312	1,168
Stamping, blanking, and forming.....	76	28	25	23	1,470	64	219	1,187
Painting, lacquering, and enameling.....	118	72	36	10	732	155	278	299
INDUSTRY 3715--TRUCK TRAILERS								
Ferrous foundry.....	2	...	...	2	(D)	...	...	(D)
Forging.....	4	3	1	...	14	(D)	(D)	...
Heat treating and annealing.....	4	4	...	...	12	12	...	...
Automatic screw machine department.....	1	1	...	...	(D)	(D)	...	...
Machine shop.....	43	21	11	11	464	49	86	329
Tool and die shop.....	7	2	4	1	79	(D)	40	(D)
Foundry pattern shop.....	1	1	...	...	(D)	(D)	...	...
Plate or structural fabrication.....	51	7	15	29	1,840	20	161	1,659
Stamping, blanking, and forming.....	41	14	17	10	973	31	179	763
Painting, lacquering, and enameling.....	67	38	24	5	487	85	187	215
INDUSTRY 3717--MOTOR VEHICLES AND PARTS								
Ferrous foundry.....	23	3	2	18	7,446	(D)	(D)	7,416
Nonferrous foundry (except die casting).....	12	4	6	2	148	7	(D)	(D)
Nonferrous die casting.....	24	5	10	9	811	10	118	683
Forging.....	39	9	5	25	2,642	19	41	2,582
Electroplating.....	86	32	23	31	3,209	(D)	(D)	2,924
Galvanizing and other hot dip coating.....	30	18	11	1	172	39	(D)	(D)
Heat treating and annealing.....	176	66	53	57	3,808	142	540	3,126
Automatic screw machine department.....	117	24	44	49	3,356	57	459	2,840
Machine shop.....	377	51	104	222	68,158	122	1,100	66,936
Tool and die shop.....	320	76	93	151	25,502	165	933	24,404
Foundry pattern shop.....	35	10	11	14	1,261	19	97	1,145
Plate or structural fabrication.....	51	8	24	19	3,983	15	254	3,714
Stamping, blanking, and forming.....	335	53	69	213	54,480	138	759	53,583
Painting, lacquering, and enameling.....	336	161	89	86	13,132	327	871	11,934

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry		
	3713	3715	3717
Total number of establishments in the industry.....	562	170	1,551
Number of establishments completing the metalworking operations inquiry.....	484	145	1,330
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	85-90	85-90	90-95

D Withheld to avoid disclosing figures for individual companies.



# Aircraft and Parts

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3721--Aircraft
- 3722--Aircraft Engines and Engine Parts
- 3723--Aircraft Propellers and Propeller Parts
- 3729--Aircraft Parts and Auxiliary Equipment,  
Not Elsewhere Classified

### 3721--Aircraft

This industry comprises establishments primarily engaged in manufacturing or assembling complete aircraft. This industry includes establishments primarily engaged in factory type aircraft modification on a contract or fee basis. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in Industries 3722, 3723, and 3729. For a detailed list of products of Industry 3721, refer to table 6A, product codes 3721110 to 3721959.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system. In 1958, an establishment manufacturing complete aircraft was classified in Industry 3721, Aircraft, if its value of work done on aircraft exceeded its value of shipments of any other single industry's products. (See introductory text on the classification of establishments.) In 1954, any establishment manufacturing at least one complete aircraft was classified in Industry 3721. This has resulted in substantial changes in both the specialization and coverage ratios between 1958 and 1954.

In Industry 3721 there is usually a significant difference between value of actual physical shipments and value of work done during a specified period. This is primarily due to lead time between the input of materials and labor and the shipments of completed aircraft. In evaluating the internal relationships of the Aircraft Industry, such as the ratio of cost of materials or payrolls to output, the value of aircraft shipments for the year is generally not meaningful and value of work done is therefore substituted. For the 1958 Census of Manufactures, establishments producing military, personal, utility, and commercial aircraft were requested to report both the value of shipments of aircraft and value of work done during the year. This latter statistic included total costs (materials, labor, overhead, etc.) and reflected the value of work done during 1958, including work done on aircraft not accepted during the year, but excluding the value of work done in prior years.

Value of work done and other receipts of the Aircraft Industry in 1958 totaled \$6,438 million. This included value of work done on aircraft (primary products), amounting to \$4,988 million, shipments of other products (secondary products) valued at \$1,148 million, and miscellaneous receipts (mainly resales) of \$302 million.

This industry's value of work done on aircraft (primary products) in 1958 represented 81 percent (spe-

cialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 89 percent. Secondary products shipped by this industry in 1958 consisted mainly of ordnance, \$290 million, aircraft engines and parts, \$31 million, other aircraft parts and auxiliary equipment, \$623 million, guided missile components and subassemblies, n.e.c., \$53 million, and receipts for research and development on missile components, n.e.c., \$106 million. In addition, other secondary products are indicated in a footnote to table 5B.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 89 percent of the total industry shipments are represented by plants specializing in complete military aircraft; and 6 percent in complete commercial, personal and utility type aircraft.

Industry 3721 shipments of aircraft (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$5,362 million shipped by all industries. In 1954, the coverage ratio was 99 percent. Another industry shipping aircraft (primary products) was industry 3729, Aircraft Parts, over \$95 million. Additional industries shipping aircraft are indicated in a footnote to table 5B. However, the exact values are withheld to avoid disclosing individual company figures.

The data for 1958 on shipments of complete civilian aircraft in this industry are comparable to figures published in the monthly Current Industrial Reports Series M37G, Complete Aircraft and Aircraft Engines.

### 3722--Aircraft Engines and Engine Parts

This industry comprises establishments primarily engaged in manufacturing aircraft engines and engine parts. For a detailed list of products of Industry 3722, refer to table 6A, product codes 3722111 to 3722451.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Aircraft Engines and Parts Industry in 1958 totaled \$3,512 million. This included shipments of aircraft engines and parts (primary products), valued at \$3,099 million, shipments of other products (secondary products) valued at \$206 million, and miscellaneous receipts (mainly resales) of \$207 million.

This industry's shipments of aircraft engines and parts (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent. Secondary products shipped by this industry in 1958 included automobile trailers, excluding housing type coaches, \$18 million; other transportation equipment, \$7 million; ordnance and accessories, n.e.c., \$3 million; special dies and tools, \$3 million; and motor vehicles and parts, \$2 million. The remaining \$165 million cannot be broken down further without disclosing the



operations of individual companies. However, product classes for which shipments totaled \$2 million or more each are spelled out in footnote 11 to table 5B.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 16 percent of the total industry shipments are represented by plants specializing in other aeronautical services on aircraft and missile engines, and 33 percent in Aircraft engines parts including parts for missile engines.

Industry 3722 shipments of aircraft engines and parts (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$3,326 million shipped by all industries. In 1954, the coverage ratio was 91 percent. Other industries shipping \$2 million or more each of aircraft engine parts are spelled out in footnotes 8, 9, and 10 to table 5B. However, exact figures are withheld to avoid disclosing individual company figures.

### 3723--Aircraft Propellers and Propeller Parts

This industry comprises establishments primarily engaged in manufacturing aircraft propellers and propeller parts. For a detailed list of products of Industry 3723, refer to table 6A, product codes 3723011 to 3723051.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Aircraft Propellers and Parts Industry in 1958 totaled \$235 million. This included shipments of aircraft propellers and parts (primary products), valued at \$158 million, shipments of other products (secondary products) valued at \$54 million, and miscellaneous receipts (mainly research and development) of \$23 million.

This industry's shipments of aircraft propellers and parts (primary products) in 1958 represented 75 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 84 percent. Secondary products shipped by this industry in 1958 totaled \$54 million, but cannot be broken down without disclosing the operations of individual companies. However, product classes for which shipments totaled \$2 million or more each are spelled out in footnote 13 to table 5B.

Industry 3723 shipments of aircraft propellers and parts (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$167 million shipped by all industries. In 1954, the coverage ratio was 87 percent. Other industries shipping \$2 million or more each of aircraft propellers and parts are spelled out in footnote 12 to table 5B. However, exact figures are withheld to avoid disclosing individual company figures.

### 3729--Aircraft Parts and Auxiliary Equipment, N.E.C.

This industry comprises establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, n.e.c. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in Industry 3721, aircraft engines and parts in Industry

3722, propellers and propeller parts in Industry 3723, aeronautical instruments in Industry 3811, and aeronautical electrical equipment in Industry 3694. For a detailed list of products of Industry 3729, refer to table 6A, product codes 3729111 to 3729411.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A.

Of all the employees now classified in new Industry 3729, Aircraft Equipment, N.E.C., 81 percent were formerly classified in old Industry 3729, Aircraft Equipment; 1 percent were in Industry 3566, Power Transmission Equipment. Of the remainder, the majority of the employees were formerly classified in Major Group 19, Ordnance and Accessories. Therefore, comparable historic data for Industry 3729 (new SIC) are not available.

This industry's shipments of aircraft equipment, n.e.c. (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of ordnance and accessories, \$52 million; aircraft, \$134 million; other aeronautical services on aircraft and missile engines, \$19 million; aircraft and missile engine parts, \$51 million; and parts and accessories for passenger cars, trucks and busses, \$6 million.

In addition, guided missile components, n.e.c., receipts from research and development on missile components, n.e.c., and aircraft and related engine and power take-off gears are now included in Industry 3729, Aircraft Equipment, N.E.C.

Value of shipments and other receipts of the Aircraft Equipment, N.E.C., Industry in 1958 totaled \$3,031 million. This included shipments of aircraft equipment, n.e.c. (primary products), valued at \$2,366 million, shipments of other products (secondary products) valued at \$461 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$204 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 91 percent of the total industry shipments are represented by plants specializing in other aircraft parts and auxiliary equipment.

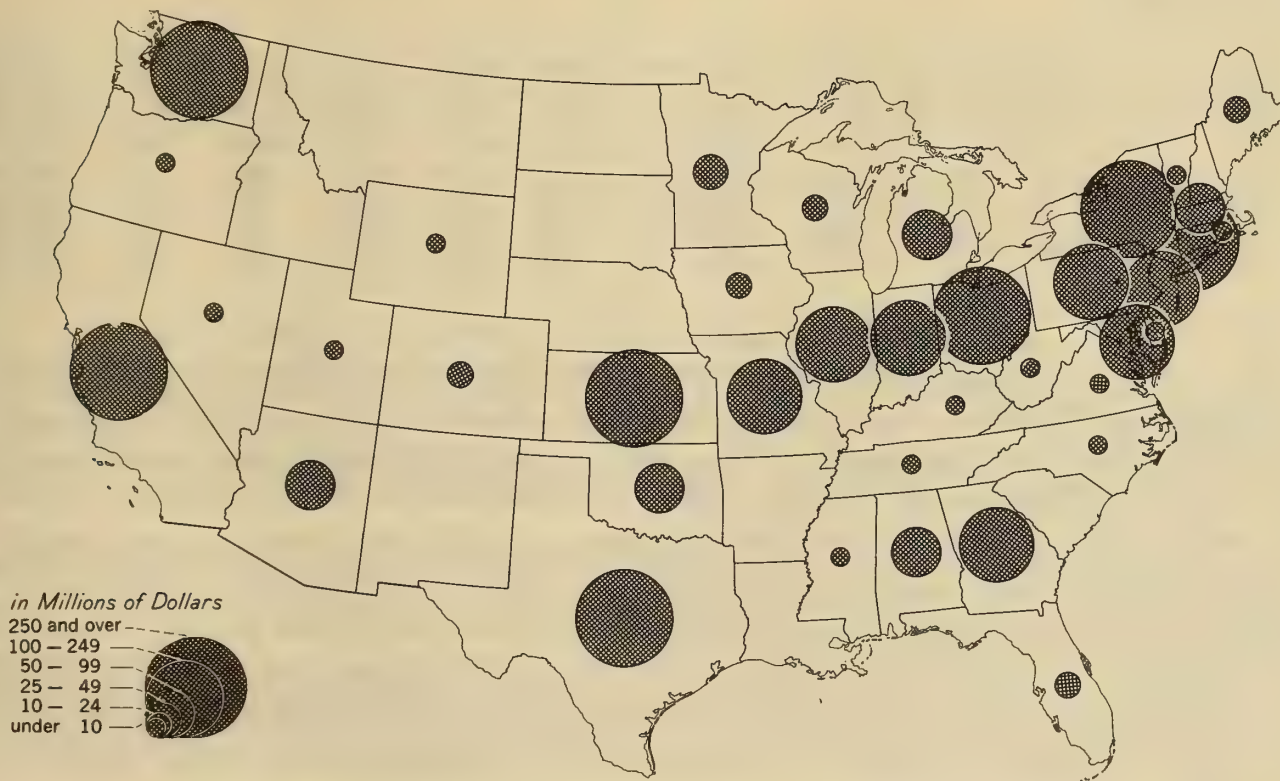
Industry 3729 shipments of aircraft equipment, n.e.c. (primary products) in 1958 represented 64 percent (coverage ratio) of these products valued at \$3,750 million shipped by all industries. Other industries shipping aircraft equipment, n.e.c. (primary products) consisted mainly of Industry 3721, Aircraft, \$782 million; Major Group 19, Ordnance and Accessories, \$350 million; Industry 3722, Aircraft Engines and Parts, \$27 million; and Industry 3723, Aircraft Propellers, \$35 million.



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## AIRCRAFT AND PARTS: SIC 372

Value Added by Manufacture by State: 1958



Includes Industries 3721, 3722, 3723 and 3729. See Table 2.

Bureau of the Census M-58-D372

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization, ratio <sup>6</sup>	Coverage <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3721 (old SIC 3721)	Aircraft:														
	1958.....	113	127	82	377,383	2,340,306	251,249	508,195	1,334,705	83,399,163	3,038,904	96,438,067	93,752	81	93
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	555,735	3,191,272	358,910	727,899	1,814,568	84,544,653	3,902,226	98,419,451	191,479	86	98
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	501,664	2,880,902	336,538	699,604	1,683,329	83,880,671	3,026,237	96,846,165	150,615	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	466,888	2,467,116	319,963	650,576	1,510,377	83,285,543	2,920,612	95,677,097	74,577	(NA)	(NA)
	1954.....	46	72	69	457,618	2,277,320	320,445	654,781	1,441,632	83,368,747	3,193,829	96,562,576	59,446	89	99
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	439,390	2,126,719	315,401	663,082	1,371,973	2,811,927	(NA)	(NA)	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	416,645	1,868,552	303,842	642,431	1,239,059	2,508,640	(NA)	(NA)	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	311,505	1,309,261	231,659	(NA)	905,684	1,614,700	(NA)	(NA)	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	186,020	712,427	136,890	289,833	480,268	907,880	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>10</sup> .....	(NA)	(NA)	(NA)	168,206	602,545	125,395	258,941	406,690	779,552	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	47	58	50	146,625	462,906	110,332	221,796	316,795	605,983	(11)	(11)	(NA)	(NA)	(NA)
	1939 <sup>12</sup> .....	(NA)	44	(NA)	(NA)	(NA)	34,159	(NA)	52,813	112,343	(11)	(11)	(NA)	(NA)	(NA)
3722 (old SIC 3722)	Aircraft engines and parts:														
	1958.....	<sup>r</sup> 186	<sup>r</sup> 223	<sup>r</sup> 175	<sup>r</sup> 159,094	<sup>r</sup> 999,237	<sup>r</sup> 94,531	<sup>r</sup> 194,858	<sup>r</sup> 509,724	<sup>r</sup> 1,615,671	<sup>r</sup> 1,719,082	<sup>r</sup> 3,512,073	<sup>r</sup> 55,883	94	93
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	181,177	1,033,320	113,074	236,575	587,835	1,752,206	1,999,672	3,707,014	108,501	93	94
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	165,146	938,491	108,932	232,954	557,321	1,557,844	1,569,771	2,957,952	94,962	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	148,785	769,692	97,955	205,217	455,195	1,288,257	1,474,204	2,792,603	57,327	(NA)	(NA)
	1954.....	202	234	183	167,383	819,181	117,277	243,536	522,850	1,435,443	1,753,507	3,268,863	46,689	93	91
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	187,426	919,950	135,443	292,680	619,590	1,614,748	(NA)	(NA)	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	153,199	743,372	111,165	247,064	511,875	1,148,345	(NA)	(NA)	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	107,242	499,479	77,297	176,553	343,740	665,214	(NA)	(NA)	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	67,603	278,759	48,464	104,945	186,219	447,211	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>10</sup> .....	(NA)	(NA)	(NA)	59,863	228,368	45,556	90,987	152,952	381,212	377,914	759,126	(NA)	(NA)	(NA)
	1947.....	(NA)	59	(NA)	50,423	166,308	36,019	(NA)	110,716	252,254	212,369	464,623	(NA)	90	95
	1939 <sup>12</sup> .....	(NA)	20	(NA)	(NA)	(NA)	9,445	(NA)	17,041	50,928	31,276	82,204	(NA)	(NA)	(NA)
3723 (old SIC 3723)	Aircraft propellers and parts:														
	1958.....	17	18	10	15,505	85,635	9,617	19,363	49,478	112,301	106,642	235,270	5,107	75	95
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	17,567	98,415	11,981	23,493	60,838	156,119	115,131	265,871	14,452	(NA)	(NA)
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	13,655	80,165	9,417	19,332	48,542	126,597	85,462	195,348	7,580	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	12,247	65,263	8,213	17,225	39,669	96,939	72,042	167,906	2,947	(NA)	(NA)
	1954.....	16	16	13	16,523	78,058	11,647	22,179	49,135	99,455	106,566	215,213	4,320	84	87
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	18,041	85,506	13,354	27,334	59,013	129,601	(NA)	(NA)	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	13,880	67,440	9,944	21,771	46,233	70,831	(NA)	(NA)	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	10,783	52,030	7,512	16,850	34,396	66,725	(NA)	(NA)	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,675	35,602	5,739	11,672	23,937	50,468	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>10</sup> .....	(NA)	(NA)	(NA)	8,065	30,984	5,343	10,869	18,636	41,628	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	12	13	9	7,423	25,666	4,822	9,916	15,230	26,685	(11)	(11)	(NA)	(NA)	(NA)
3729 (old SIC 3729)	Aircraft equipment, nec: <sup>13</sup>														
	1958.....	1,148	<sup>r</sup> 1,201	<sup>r</sup> 508	<sup>r</sup> 213,500	<sup>r</sup> 1,294,872	<sup>r</sup> 144,102	<sup>r</sup> 296,671	<sup>r</sup> 781,914	<sup>r</sup> 1,797,203	<sup>r</sup> 1,155,011	<sup>r</sup> 3,031,089	<sup>r</sup> 50,757	84	<sup>r</sup> 63

NA Not available. <sup>r</sup>Revised.<sup>s</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3721	3,348,876	3723	108,415
3722	1,435,443	3729	(NA)

Footnotes continued on next page.



Footnotes for table 1—37B

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3721	2,788,488	2,928,271	3723	104,691	101,679
3722	1,598,388	1,753,507	3729	1,121,811	(NA)

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3721	6,164,388	6,267,147	3723	(NA)	210,094
3722	3,359,312	3,188,950	3729	2,985,354	(NA)

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>For the period 1954-1958, the adjusted value added figure for the aircraft industry has not been adjusted for the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry are value of work done rather than value of shipments. It does include the value added by resales. For prior years, this figure is unadjusted value added.

<sup>9</sup>Represents value of work done rather than value of shipments.

<sup>10</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>11</sup>Total cost of materials and total value of shipments are not shown since these figures are not comparable to those of later years.

<sup>12</sup>No comparable figures available prior to 1939.

<sup>13</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3729—Aircraft equipment, nec.....	1,201	508	213,500	1,797,203	xxx	xxx	xxx	xxx
Old Industry 3729—Aircraft equipment, nec.....	1,129	467	158,794	1,343,699	1,142	477	162,436	1,367,386
Old Industry 3566—Power transmission equipment.....	17	14	1,935	16,583	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Old Industry 1929—Ammunition, nec.....	49	22	50,651	417,833	89	59	157,184	1,572,440
All other industries.....	6	5	2,140	19,088	xxx	xxx	xxx	xxx

<sup>r</sup>Revised.

<sup>1</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3721	Aircraft, total.....	127	82	377,383	2,340,306	251,249	508,195	1,334,705	3,399,163	6,438,067	93,752	457,618	3,348,876	146,625
	Northeast.....	25	17	42,713	267,758	29,063	56,766	155,029	380,979	670,281	14,859	(2)	(2)	(2)
	North Central.....	26	20	70,125	407,166	47,396	94,785	240,897	548,785	1,380,632	11,255	74,170	530,987	12,923
	South.....	22	17	90,986	554,336	64,731	128,042	347,750	807,008	1,449,306	28,064	100,557	654,455	29,489
	West.....	54	28	173,559	1,111,046	110,059	228,602	591,029	1,662,391	2,937,848	39,574	220,260	1,637,320	80,008
3722	Aircraft engines and parts, total...	1223	1175	159,094	1999,237	194,531	194,858	1509,724	1,615,671	13,512,073	155,883	167,383	1,435,443	50,423
	New England.....	39	34	42,196	237,873	30,072	63,037	151,560	379,755	1,047,169	13,382	44,859	325,219	18,605
	Middle Atlantic.....	43	35	26,517	156,638	17,258	35,088	93,675	285,146	473,410	4,814	41,595	348,797	10,649
	Pennsylvania.....	16	13	6,019	31,891	4,681	9,394	22,930	62,523	101,161	1,013	12,117	95,901	2,024
	East North Central	92	72	53,453	344,931	28,518	56,893	159,267	607,955	1,427,791	14,981	(2)	(2)	(2)
	Ohio.....	28	22	26,208	176,988	12,913	26,296	73,789	294,870	642,656	8,766	29,696	283,764	8,580
	West North Central	5	5	5,790	35,186	2,781	5,405	13,420	53,472	83,194	5,429	(2)	(2)	(2)
	South.....	10	9	3,866	21,222	2,463	5,040	9,836	27,107	51,760	2,236	5,034	38,839	1,809
	West.....	134	120	27,272	203,387	13,439	29,395	81,966	262,236	428,749	15,041	(2)	(2)	(2)
	California.....	26	15	25,833	193,268	12,512	27,360	77,127	250,001	402,934	11,967	4,246	35,337	1,809
3723	Aircraft propellers and parts, total...	18	10	15,505	85,635	9,617	19,363	49,478	112,301	235,270	5,107	16,523	108,415	7,423
3729	Aircraft equipment, nec, total.....	1,201	1,508	213,500	1,294,872	144,102	129,671	781,914	1,797,203	13,031,089	150,757	(4)	(4)	(4)
	Middle Atlantic...	177	93	36,025	219,922	21,702	43,008	111,187	302,620	484,328	10,803	(4)	(4)	(4)
	New York.....	107	50	23,625	138,787	15,720	30,471	81,476	179,701	284,921	4,916	(4)	(4)	(4)
	East North Central	182	83	42,692	253,444	26,909	53,925	141,940	337,229	696,537	9,556	(4)	(4)	(4)
	Michigan.....	64	21	5,905	34,898	4,011	8,006	21,342	43,352	77,943	2,035	(4)	(4)	(4)
	South Atlantic...	35	17	10,159	55,015	7,556	14,629	37,734	43,214	128,972	2,181	(4)	(4)	(4)
	Florida.....	21	8	1,450	6,370	1,229	2,253	5,192	9,707	18,554	(3)	(4)	(4)	(4)
	West South Central	34	18	9,034	48,369	6,046	11,988	31,697	70,893	128,092	2,174	(4)	(4)	(4)
	Mountain.....	19	10	6,614	43,721	5,349	11,581	34,399	71,528	113,130	1,023	(4)	(4)	(4)
	Pacific.....	1619	1,230	188,514	1,560,276	160,757	128,359	340,389	797,748	1,185,853	22,204	(4)	(4)	(4)
	California.....	600	222	87,130	552,894	59,654	126,148	334,937	786,094	1,169,383	21,626	(4)	(4)	(4)
	All other divisions.....	135	57	20,462	114,125	15,783	33,181	84,568	173,970	294,177	2,816	(4)	(4)	(4)
	Connecticut.....	54	17	1,708	9,811	1,222	2,564	6,170	16,413	24,095	529	(4)	(4)	(4)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3721, Aircraft: Northeast—Connecticut, 7 (5,000 and over); New York, 14 (26,649); New Jersey, 1 (100-249); Pennsylvania, 3 (2,500-4,999); North Central—Ohio, 8 (10,408); Indiana, 1 (20-99); Michigan, 6 (1,000-2,499); Wisconsin, 1 (20-99); Minnesota, 1 (20-99); Missouri, 2 (5,000 and over); Kansas, 7 (32,561); South—Maryland, 3 (18,890); District of Columbia, 1 (1-19); Georgia, 1 (5,000 and over); Florida, 3 (500-999); Alabama, 3 (5,000 and over); Oklahoma, 3 (7,665); Texas, 8 (40,555); West—Wyoming, 1 (20-99); Colorado, 1 (1-19); Arizona, 1 (20-99); Utah, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 4 (61,856); Oregon, 1 (20-99); California, 44 (111,572).

SIC 3722, Aircraft Engines and Parts: New England—Maine, 4 (1,496); Massachusetts, 9 (5,664); Rhode Island, 1 (20-99); Connecticut, 25 (34,972); Middle Atlantic—New York, 15 (5,000 and over); New Jersey, 12 (5,000 and over); East North Central—Indiana, 14 (15,187); Illinois, 10 (7,286); Michigan, 38 (2,500-4,999); Wisconsin, 2 (100-249); West North Central—Iowa, 2 (1,000-2,499); Missouri, 3 (2,500-4,999); South—Maryland, 1 (250-499); North Carolina, 2 (100-249); Florida, 3 (100-249); Alabama, 1 (1,000-2,499); Texas, 3 (1,719); West—Colorado, 1 (100-249); Arizona, 4 (100-249); Utah, 2 (1,000-2,499); Washington, 1 (1-19).

SIC 3723, Aircraft Propellers and Parts: New England—Massachusetts, 1 (1-19); Connecticut, 3 (5,000 and over); Middle Atlantic—New York, 1 (20-99); New Jersey, 3 (1,000-2,499); Pennsylvania, 1 (100-249); East North Central—Ohio, 4 (2,572); Michigan, 1 (20-99); South Atlantic—Florida, 1 (1-19); Pacific—Washington, 1 (20-99); California, 2 (1-19).

SIC 3729, Aircraft Equipment, NEC: New England—Maine, 2 (20-99); Vermont, 1 (20-99); Massachusetts, 14 (3,040); Rhode Island, 2 (20-99); Middle Atlantic—New Jersey, 46 (6,368); Pennsylvania, 24 (6,032); East North Central—Ohio, 62 (21,486); Indiana, 29 (5,000 and over); Illinois, 21 (3,755); Wisconsin, 6 (500-999); West North Central—Minnesota, 10 (2,500-4,999); Missouri, 12 (2,439); Kansas, 36 (8,321); South Atlantic—Delaware, 1 (100-249); Maryland, 5 (8,123); District of Columbia, 1 (1-19); Virginia, 2 (20-99); West Virginia, 1 (100-249); North Carolina, 3 (20-99); Georgia, 1 (20-99); East South Central—Kentucky, 1 (20-99); Tennessee, 2 (20-99); Mississippi, 1 (500-999); West South Central—Oklahoma, 9 (500-999); Texas, 25 (8,270); Mountain—Colorado, 6 (1,000-2,499); Arizona, 13 (5,000 and over); Pacific—Washington, 16 (250-499); Oregon, 3 (500-999).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).



Table 3.—Detailed Statistics for the United States: 1958

Item	Aircraft (SIC 3721)	Aircraft engines and parts (SIC 3722)	Aircraft propellers and parts (SIC 3723)	Aircraft equipment, nec (SIC 3729)
Primary product specialization ratio <sup>1</sup> .....	81	94	75	84
Coverage ratio <sup>2</sup> .....	93	93	95	r63
Number of establishments, total.....	127	r223	18	r1,201
With 1-19 employees.....	45	48	8	693
With 20-99 employees.....	40	79	3	302
With 100 employees or more.....	42	r96	7	r206
Proprietors and working partners.....Number..	33	37	10	540
All employees:				
Number (average for the year).....	377,383	r159,094	15,505	r213,500
Payroll.....\$1,000..	2,340,306	r999,237	85,635	r1,294,872
Production workers:				
Number (average for the year).....	251,249	r94,531	9,617	r144,102
March.....	249,138	r95,616	11,327	r147,042
May.....	247,833	r94,625	10,501	r142,802
August.....	252,121	r92,919	9,020	r142,277
November.....	255,912	r94,594	7,607	r144,499
Man-hours.....1,000..	508,195	r194,858	19,363	r296,671
January-March.....do....	126,258	r50,308	6,090	r75,872
April-June.....do....	125,383	r48,946	5,332	r73,976
July-September.....do....	126,800	r45,673	4,020	r70,444
October-December.....do....	129,717	r49,713	3,917	r75,881
Wages.....\$1,000..	1,334,705	r509,724	49,478	r781,914
Cost of materials, etc., total.....do....	3,038,904	r1,719,082	106,642	r1,155,011
Materials, parts, containers, and supplies consumed.....do....	2,547,029	r1,442,387	98,042	r930,073
Cost of resales.....do....	250,416	120,694	1,951	33,200
Fuels consumed.....do....	6,143	r8,932	671	r6,674
Electricity purchased.....do....	19,493	r18,229	1,713	r14,162
Contract work.....do....	215,823	128,840	4,265	r170,902
Value of shipments (including resales), total.....do....	<sup>3</sup> 6,438,067	r3,512,073	235,270	r3,031,089
Value of resales.....do....	273,679	152,761	(D)	45,735
Value added by manufacture, adjusted.....do....	3,399,163	r1,615,671	112,301	r1,797,203
Manufacturers' inventories:				
Beginning of year, total.....do....	2,470,424	r778,764	63,440	r707,377
Finished products.....do....	38,596	r156,248	25,695	r53,821
Work-in-process.....do....	1,966,729	r417,127	31,687	r514,950
Materials, supplies, fuel, etc.....do....	465,099	r205,389	6,058	r138,606
End of year, total.....do....	2,476,890	r570,811	47,175	r609,819
Finished products.....do....	41,045	r135,122	21,162	r40,580
Work-in-process.....do....	2,077,375	r260,933	19,893	r449,316
Materials, supplies, fuel, etc.....do....	358,470	r174,756	6,120	r119,923
Expenditures for plant and equipment, total.....do....	96,121	r74,732	5,509	r59,098
New, total.....do....	93,752	r55,883	5,107	r50,757
New structures and additions to plant.....do....	39,486	r20,398	797	r15,665
New machinery and equipment.....do....	54,266	r35,485	4,310	r35,092
Used plant and equipment.....do....	2,369	r18,849	402	r8,341

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>For Industry 3721, represents value of work done.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3721	Aircraft:											
	Number of establishments.....	127	17	12	16	26	14	7	3	4	5	23
	All employees:											
	Number.....	377,383	44	80	222	788	951	960	1,013	3,055	7,780	362,490
	Payroll.....\$1,000..	2,340,306	243	385	1,157	4,462	5,793	4,955	4,966	15,319	41,923	2,261,103
	Value added, adjusted..do....	3,399,163	437	493	1,476	7,353	8,003	6,899	7,193	26,567	47,938	3,292,804
	Value of shipments <sup>2</sup> ....do....	6,438,067	570	742	2,626	10,211	12,430	10,258	12,457	39,324	112,631	6,236,818
	Capital expend., new....do....	93,752	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,914	1,851	88,866
3722	Aircraft engines and parts:											
	Number of establishments.....	<sup>r</sup> 223	8	14	26	44	35	29	19	16	16	<sup>r</sup> 16
	All employees:											
	Number.....	<sup>r</sup> 159,094	18	92	362	1,354	2,416	4,553	6,641	12,627	24,750	<sup>r</sup> 106,281
	Payroll.....\$1,000..	<sup>r</sup> 999,237	98	493	2,262	8,205	13,863	25,816	41,362	78,385	152,474	<sup>r</sup> 676,289
	Value added, adjusted..do....	<sup>r</sup> 1,615,671	236	771	3,797	14,597	19,853	40,778	60,052	124,070	246,433	<sup>r</sup> 1,105,079
	Value of shipments....do....	<sup>r</sup> 3,512,073	302	1,385	5,782	20,449	36,132	66,667	116,876	219,617	425,929	<sup>r</sup> 2,618,934
	Capital expend., new....do....	<sup>r</sup> 55,883	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	704	814	1,311	3,718	6,025	6,662	<sup>r</sup> 36,238
3723	Aircraft propellers and parts:											
	Number of establishments.....	18	4	1	3	1	2	3	1	...	2	1
	All employees:											
	Number.....	15,505	7	49	(D)	<u>541</u>	(D)	(D)	<u>14,908</u>	...	(D)	(D)
	Payroll.....\$1,000..	85,635	16	257	(D)	<u>3,058</u>	(D)	(D)	<u>82,304</u>	...	(D)	(D)
	Value added, adjusted..do....	112,301	58	798	(D)	<u>5,144</u>	(D)	(D)	<u>106,301</u>	...	(D)	(D)
	Value of shipments....do....	235,270	99	978	(D)	<u>7,916</u>	(D)	(D)	<u>226,277</u>	...	(D)	(D)
	Capital expend., new....do....	5,107	( <sup>1</sup> )	(D)	(D)	<u>614</u>	(D)	(D)	<u>4,385</u>	...	(D)	(D)
3729	Aircraft equipment, nec:											
	Number of establishments.....	<sup>r</sup> 1,201	306	184	203	204	98	88	44	30	25	<sup>r</sup> 19
	All employees:											
	Number.....	<sup>r</sup> 213,500	646	1,259	2,774	6,277	6,631	14,261	15,563	20,422	38,279	<sup>r</sup> 107,388
	Payroll.....\$1,000..	<sup>r</sup> 1,294,872	3,024	6,329	15,391	36,236	40,131	84,956	89,202	120,900	226,872	<sup>r</sup> 671,831
	Value added, adjusted..do....	<sup>r</sup> 1,797,203	6,968	11,408	27,946	59,638	69,159	125,913	139,656	192,909	272,394	<sup>r</sup> 891,222
	Value of shipments....do....	<sup>r</sup> 3,031,089	10,407	17,995	41,735	91,008	109,615	232,593	236,347	302,397	499,537	<sup>r</sup> 1,489,455
	Capital expend., new....do....	<sup>r</sup> 50,757	929	866	1,302	3,144	2,573	5,045	5,761	4,502	8,508	<sup>r</sup> 18,127

<sup>r</sup>Revised<sup>1</sup>Less than \$500 thousand.<sup>2</sup>Represents value of work done.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
Col. B Col. B+C (percent)	Col. G Col. F (percent)									
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(I)	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)			
3721	Aircraft.....1958..	6,438,067	4,988,297	1,148,011	301,759	81	5,362,680	4,988,297	374,383	93
	.....1954..	6,562,576	5,532,623	682,867	347,086	89	5,582,476	5,532,623	49,853	99
3722	Aircraft engines and parts....1958..	₹3,512,073	₹3,099,271	₹206,503	206,299	94	₹3,325,935	₹3,099,271	226,664	93
	.....1954..	3,268,863	2,902,391	227,038	139,434	93	3,190,539	2,902,391	288,148	91
3723	Aircraft propellers and parts.1958..	235,270	158,030	53,771	23,469	75	167,152	158,030	9,122	95
	.....1954..	215,213	165,728	30,998	18,487	84	191,012	165,728	25,284	87
3729	Aircraft equipment, nec.....1958..	₹3,031,089	₹2,365,826	₹461,067	204,196	84	₹3,750,460	₹2,365,826	₹1,384,634	₹63

<sup>r</sup>Revised

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A, the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Aircraft industry	Aircraft (SIC 3721)	Other industries	All industries
	Total shipments and receipts of the industry.....	16,438,067	xxx	xxx
	Primary products.....	24,988,297	2374,383	25,362,680
37211	Complete military aircraft.....	3,433,661	367,989	3,501,650
37212	Complete personal, commercial transport and utility type aircraft.....	775,971	212,266	988,237
37214	Modifications, conversions and overhaul.....	284,744	14,056	298,800
37216	Other aeronautical services for aircraft.....	493,921	80,072	573,993
	Secondary products.....	1,148,011	xxx	xxx
19---	Ordnance and accessories.....	289,701	xxx	xxx
3722-	Aircraft engines and parts.....	30,702	xxx	xxx
37291	Other aircraft parts and auxiliary equipment.....	623,460	xxx	xxx
37292	Guided missile components and sub-assemblies, nec.....	52,722	xxx	xxx
37294	Receipts from research and development on missile components, nec.....	106,143	xxx	xxx
	All other secondary products.....	745,283	xxx	xxx
	Miscellaneous receipts.....	301,759	xxx	xxx
	Contract work.....	1,272	xxx	xxx
	Resales.....	273,679	xxx	xxx
	Other miscellaneous receipts.....	26,808	xxx	xxx
Prod. class code	Aircraft engines and parts industry	Aircraft engines and parts (SIC 3722)	Other industries	All industries
	Total shipments and receipts of the industry.....	13,512,073	xxx	xxx
	Primary products.....	13,099,271	226,664	13,325,935
37211	Aircraft engines for U.S. military customers and all missile engines.....	11,364,843	35,008	11,399,851
37222	Aircraft engines for other than U.S. military customers.....	1,638,746	25,937	1,664,683
37223	Other aeronautical services on aircraft and missile engines.....	1,095,682	10165,719	1,261,401
37224	Aircraft engine parts.....			
	Secondary products.....	1,206,503	xxx	xxx
19990	Ordnance and accessories, nec.....	3,392	xxx	xxx
35441	Special dies and tools, jigs and fixtures.....	2,576	xxx	xxx
3717-	Motor vehicles and parts.....	2,351	xxx	xxx
37291	Automobile trailers, excluding housing type coaches.....	17,762	xxx	xxx
37292	Other transportation equipment.....	6,669	xxx	xxx
	All other secondary products.....	111,173,753	xxx	xxx
	Miscellaneous receipts.....	206,299	xxx	xxx
	Contract and commission work.....	9,442	xxx	xxx
	Resales.....	152,761	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	28,770	xxx	xxx
	Other miscellaneous receipts.....	15,326	xxx	xxx
Prod. class code	Aircraft propellers and parts industry	Aircraft propellers and parts (SIC 3723)	Other industries	All industries
	Total shipments and receipts of the industry.....	235,270	xxx	xxx
37230	Aircraft propellers and parts.....	158,030	129,122	167,152
	Secondary products.....	1353,771	xxx	xxx
	Miscellaneous receipts.....	23,469	xxx	xxx
	Research and development.....	12,912	xxx	xxx
	Other miscellaneous receipts.....	10,557	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Aircraft equipment, nec, industry	Aircraft equipment, nec (SIC 3729)	Ordnance and accessories (Major Group 19)	Aircraft (SIC 3721)	Aircraft engines and parts (SIC 3722)	Aircraft propellers (SIC 3723)	Other industries	All industries
	Total shipments and receipts of the industry.....	\$3,036,089	xxx	xxx	xxx	xxx	xxx	xxx
	Primary products.....	\$2,365,826	349,502	782,325	\$27,102	34,525	191,180	\$3,750,460
37291	Other aircraft parts and auxiliary equipment.....	2,010,727	32,894	623,460	17,762	34,525	<sup>14</sup> 141,202	2,860,570
37292	Guided missile components and sub-assemblies, nec....	<sup>1</sup> 172,420	243,750	52,722	<sup>17</sup> 7,061	...	<sup>15</sup> 33,247	<sup>1</sup> 509,200
37294	Research and development on missile components, nec..	<sup>1</sup> 182,679	72,858	106,143	<sup>12</sup> 2,279	...	<sup>16</sup> 16,731	<sup>1</sup> 380,690
	Secondary products.....	<sup>1</sup> 461,067	xxx	xxx	xxx	xxx	xxx	xxx
19---	Ordnance and accessories.....	52,169	xxx	xxx	xxx	xxx	xxx	xxx
35441	Special dies and tools, die sets, jigs and fixtures..	3,594	xxx	xxx	xxx	xxx	xxx	xxx
35712	Computing and accounting machines.....	3,732	xxx	xxx	xxx	xxx	xxx	xxx
35990	Carburetors, pistons, and other machine shop products	3,748	xxx	xxx	xxx	xxx	xxx	xxx
37175	Parts and accessories for passenger cars, trucks, and busses.....	6,019	xxx	xxx	xxx	xxx	xxx	xxx
3721-	Aircraft.....	134,548	xxx	xxx	xxx	xxx	xxx	xxx
37223	Other aeronautical services on aircraft and missile engines.....	19,432	xxx	xxx	xxx	xxx	xxx	xxx
37224	Aircraft and missile engine parts.....	51,139	xxx	xxx	xxx	xxx	xxx	xxx
	All other secondary products.....	<sup>1</sup> 186,686	xxx	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	204,196	xxx	xxx	xxx	xxx	xxx	xxx
	Contract work.....	89,839	xxx	xxx	xxx	xxx	xxx	xxx
	Resales.....	45,735	xxx	xxx	xxx	xxx	xxx	xxx
	Other miscellaneous receipts.....	68,622	xxx	xxx	xxx	xxx	xxx	xxx

<sup>1</sup>Revised<sup>1</sup>Represents the value of work done for primary products of the industry and the value of shipments for secondary products.<sup>2</sup>Represents value of work done.<sup>3</sup>Includes shipments of \$61,832 thousand by Industry 3729, Aircraft Parts.<sup>4</sup>Includes shipments of over \$2 million each by Major Group 19 and Industry 3729. However, the exact values are withheld to avoid disclosing individual company figures.<sup>5</sup>Includes shipments of over \$2 million each by Major Group 19 and Industries 3722 and 3729. However, the exact values are withheld to avoid disclosing individual company figures.<sup>6</sup>Includes shipments of \$29,389 thousand by Industry 3729, Aircraft Parts. In addition, over \$2 million was shipped by Industry 3722. However, the exact value is withheld to avoid disclosing individual company figures.<sup>7</sup>Includes shipments of over \$2 million each for the following product classes; however, the exact values are withheld to avoid disclosing individual company figures: 27313, 35112, 35441, 35712, and 38111.<sup>8</sup>Includes shipments of \$7,280 thousand by Industry 3729, Aircraft Parts. In addition, Major Group 19 and Industries 3356, 3519, and 3553 shipped \$2 million or more each. However, the exact values are withheld to avoid disclosing individual company figures.<sup>9</sup>Includes the following industries which total \$2 million or more each but exact values for which are withheld to avoid disclosing individual company figures: 3519 and 3729.<sup>10</sup>Includes \$2,790 thousand shipped by Industry 3544, Special Dies and Tools; \$36,075 thousand by Industry 3717, Motor Vehicles and Parts; \$30,299 thousand by Industry 3721, Aircraft. In addition, the following industries had shipments which totaled \$2 million or more each but exact values are withheld to avoid disclosing individual company figures: 3443, 3494, 3519, 3662, 3723, 3821, and 3914.<sup>11</sup>Includes shipments of over \$2 million of the following product classes, the exact values of which are withheld to avoid disclosing figures for individual companies: 3443, 34613, 35112, 35197, 35441, 35511, 35661, 35663, 36625, 37214, 37216, 37230, and 38111.<sup>12</sup>Includes shipments of over \$2 million by Industry 3722. However, the exact value is withheld to avoid disclosing individual company figures.<sup>13</sup>Includes shipments of the following product classes which total \$2 million or more each but the exact values for which are withheld to avoid disclosing individual company figures: 35857, 37224, and 37291.<sup>14</sup>Includes shipments (in thousands of dollars) of the specified amounts by the following industries: Industry 2531, Public Building Furniture, \$2,825; Industry 3544, Special Dies and Tools, \$3,121; Industry 3566, Power Transmission Equipment, \$4,596; Industry 3585, Refrigeration Machinery, \$4,362; Industry 3613, Switchgear and Switchboards, \$2,171; Industry 3662, Radio, TV Communication Goods, \$14,412; Industry 3717, Motor Vehicles and Parts, \$3,335; Industry 3811, Scientific Instruments, \$18,686; Industry 3821, Mechanical Measuring Devices, \$4,206; and Industry 3949, Sporting and Athletic Goods, NEC, \$8,468. In addition, the following industries shipped over \$2 million each of product class 37291; however, the exact figures are withheld to avoid disclosing the operations of individual companies: 3292, 3498, 3561, 3571, 3632, 3633, and 3651.<sup>15</sup>Includes \$12,444 thousand shipped by Industry 3662, Radio, TV Communication Goods. In addition, the following industries each shipped over \$2 million; however, the exact values are withheld to avoid disclosing individual company figures: 3537, 3561, 3811, 3821, and 3949.<sup>16</sup>Includes shipments of over \$2 million by the following industries; however, the exact figure is withheld to avoid disclosing individual company figures: 3519, 3662, and 3811.<sup>17</sup>Includes the following product classes, each of which amounted to \$2 million or more; however, the exact values are withheld to avoid disclosing individual company figures: 27313, 30794, 30795, 34435, 35222, 35842, 35615, 35616, 35860, 36112, 36511, 36621, 36623, 36625, 37423, 38112, and 39991.



Table 6A.—Value of Work Done and Quantity and Value of Shipments  
by All Producers in the United States: 1958 and 1954

Product code	Product	Total value of work done and shipments of complete aircraft <sup>1</sup>			
		1958		1954	
		Quantity (no. of units)	Value (\$1,000)	Quantity (no. of units)	Value (\$1,000)
3721---	Aircraft.....	xxx	( <sup>1</sup> )	xxx	( <sup>1</sup> )
	Total value of work done <sup>1</sup> .....	xxx	5,362,680	xxx	5,582,476
3721110	Value of work done on aircraft military type for United States military customers, excluding modifications, conversions, and other aeronautical services.....	xxx	3,501,650	xxx	4,286,260
3721210	Value of work done on aircraft, personal type, for other than United States military customers, excluding modifications, conversions, and other aeronautical services.....	xxx	988,237	xxx	291,705
37214--	Modifications, conversions, and overhaul of previously accepted aircraft.....	xxx	298,800	xxx	167,829
3721411	For United States military customers.....	xxx	286,265	xxx	161,159
3721451	For other than United States military customers.....	xxx	12,535	xxx	6,670
37216--	Other aeronautical services (including research and development on aircraft) <sup>2</sup> .....	xxx	573,993	xxx	836,682
3721611	For United States military customers.....	xxx	519,476	xxx	834,802
3721651	For other than United States military customers.....	xxx	54,517	xxx	1,880
37219--	Total value of shipments <sup>1</sup> .....	xxx	3,755,870	xxx	4,216,040
3721911	Aircraft, complete, accepted during 1958 <sup>3</sup> : For United States military customers (including airplanes, balloons, helicopters, and autogiros).....	xxx	3,255,741	xxx	3,878,743
	For other than United States military customers (including airplanes, balloons, helicopters, and autogiros): Complete civilian aircraft under 3,000 pounds airframe weight.....	xxx	100,803	xxx	41,406
	1- and 2-place: Under 100 h.p.....	1,021	6,316	31	88
3721931	100-399 hp.....			496	5,692
3721935- 3721939	All other complete civilian aircraft, under 3,000 pounds air base weight.....	5,501	94,487	2,571	35,609
3721951- 3721959	Complete civilian aircraft, 3,000 pounds airframe weight and over.....	360	399,326	291	254,502
Value of shipments (\$1,000)					
		1958		1954	
3722---	Aircraft engines, total.....	r 3,325,935		3,190,539	
37221--	Aircraft engines for United States military customers and all missile engines <sup>4</sup> .....	}	r 1,399,851	1,511,231	
37222--	Aircraft engines for other than United States military customers <sup>3</sup> .....			212,365	
37223--	Other aeronautical services on aircraft and missile engines <sup>2</sup> .....	r 664,683		210,967	
3722311	Other aeronautical services for United States military customers (excluding aircraft and aircraft parts, but including receipts for research and development on aircraft engines)	r 658,327		1,398	
3722351	Research and development work on aircraft engines for other than United States military customers (including receipts for work done for affiliates and other establishments of the same company).....	6,356		1,466,943	
37224--	Aircraft engine parts (including parts for missile engines).....	1,261,401		1,317,860	
3722411	For United States military customers.....	854,764		212,365	
3722451	For other than United States military customers.....	406,637			
Total shipments including interplant transfers					
		1958		1954	
		Quantity (no. of units)	Value (\$1,000)	Quantity (no. of units)	Value (\$1,000)
3723---	Aircraft propellers and parts, total.....	xxx	166,952	xxx	191,012
3723011	Complete propellers <sup>4</sup> .....	22,132	94,832	(NA)	88,176
3723031	Propeller blades.....	7,013	13,291	(NA)	21,953
3723051	Propeller parts, except propeller blades.....	xxx	58,829	xxx	80,883
Value of shipments including interplant transfers (\$1,000)					
		1958		1954	
3729---	Aircraft parts and auxiliary equipment, nec, total.....	r 3,750,460		s 2,866,553	
37291--	Other aircraft parts and auxiliary equipment.....	2,860,570		s 2,866,553	
3729111	Aircraft and related engine and power take-off gears.....	26,848		(NA)	
3729198	Other aircraft subassemblies and parts.....	2,833,722		s 2,866,553	
3729215	Guided missile components and subassemblies, nec.....	r 509,200		(NA)	
3729411	Research and development on missile components, nec.....	r 380,690		(NA)	

NA Not available. <sup>2</sup>Revised.<sup>1</sup>Total value of shipments figure for aircraft differs from value of work done. See text for explanation of differences.<sup>2</sup>Value data for modifications, conversions, and overhaul of previously delivered aircraft and for aeronautical services on complete aircraft and aircraft engines represent approximate value of work done for both years and were reported in terms of receipts, billings, or value of work done during these years.<sup>3</sup>Statistics on shipments of complete civil aircraft and engines for civil aircraft were collected monthly and published in Current Industrial Reports Series M37G.<sup>4</sup>Statistics on complete propellers are also shown in Current Industrial Reports Series M37E, Aircraft Propellers.<sup>5</sup>For 1954, an undetermined amount of value of shipments for parachutes was included in Industry 3729.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
<u>Complete commercial, personal and utility type aircraft (37212):</u>			<u>Aircraft engine parts (including parts for missile engines) (37224)-- Continued</u>	1958 <sup>2</sup>	1954	<u>Aircraft equipment, nec (37291)--Continued</u>	1958 <sup>2</sup>
United States, total:						North Central.....	787,167
1958.....	1,988,237					Ohio.....	250,067
1957.....	1,855,256		North Central.....	510,857	745,411	Indiana.....	152,146
1956.....	1,584,796					Illinois.....	64,827
1955.....	1,500,953		Ohio.....	165,601	289,829	Michigan.....	82,334
1954.....	1,291,705		Indiana.....	141,040	109,953	Missouri.....	69,800
	1958 <sup>2</sup>		Illinois.....	66,327	111,191	Kansas.....	144,949
Northeast.....	66,655		Michigan.....	80,749	181,554		
All other regions.....	921,582					South Atlantic.....	112,089
California.....	553,085		South.....	18,613	( <sup>3</sup> )	Maryland.....	84,114
<u>Aircraft engine parts (including parts for missile engines) (37224):</u>	Value of shipments		West.....	77,966	53,082	Florida.....	17,586
United States, total:			California.....	75,631	53,082		
1958.....	1,261,401			Value of shipments		East South Central.....	26,751
1957.....	1,491,760			1958 <sup>2</sup>		West South Central.....	205,493
1956.....	1,260,895		<u>Aircraft equipment, nec (37291):</u>			Oklahoma.....	8,985
1955.....	1,165,367		United States, total.....	2,860,570		Texas.....	196,508
1954.....	1,466,943						
1947.....	136,443		Northeast.....	512,224			
	1958 <sup>2</sup>	1954				West.....	1,216,846
Northeast.....	653,965	667,603	Rhode Island.....	1,774		California.....	1,018,491
Maine.....	19,149	( <sup>3</sup> )	Connecticut.....	105,739			
Massachusetts.....	40,338	( <sup>3</sup> )	New York.....	248,264			
New York.....	63,718	133,206	New Jersey.....	72,296			
Pennsylvania.....	95,322	79,398					

Note: The figures shown for 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>Represents value of work done.

<sup>2</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 37212, Connecticut, New York, Pennsylvania, Kansas, Maryland, Oklahoma, Texas, and Washington; 37224, Vermont, Connecticut, Wisconsin, Iowa, Missouri, Kansas, North Carolina, Florida, Alabama, Texas, and Colorado; 37291, Maine, Vermont, Massachusetts, Pennsylvania, Wisconsin, Minnesota, Delaware, Virginia, West Virginia, Georgia, Tennessee, Alabama, Mississippi, Colorado, Arizona, Washington, and Oregon.

<sup>3</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.



Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954		1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3721—AIRCRAFT				INDUSTRY 3729—AIRCRAFT EQUIPMENT, NEC			
	Materials, parts, containers and supplies, total.....		xxx	2,547,029	xxx	2,646,627	xxx	r930,073	(NA)	(NA)
	Mill shapes and forms (except castings):									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons....	7,775	2,513	10,931	3,232	r13,698	r5,330	(NA)	(NA)
331212	Sheet and strip.....	do.....	4,761	1,611	6,612	2,127	r12,910	r3,316	(NA)	(NA)
331213	Plates.....	do.....	7,927	1,900	7,290	1,290	r5,299	r1,202	(NA)	(NA)
331215	Structural shapes.....	do.....	5,645	1,441	4,866	927	(NA)	r4,210	(NA)	(NA)
331217	Wire and wire products.....	do.....	1,678	1,078	2,645	1,379	(NA)	r1,727	(NA)	(NA)
331219	All other carbon steel mill shapes and forms.....	do.....	3,928	2,240	4,321	2,029	r2,368	r1,105	(NA)	(NA)
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.....	6,234	3,903	11,312	5,265	r13,566	r8,073	(NA)	(NA)
331225	All other alloy steel mill shapes and forms.....	do.....	3,045	3,100	5,352	3,497	r19,470	r13,228	(NA)	(NA)
331231	Stainless steel mill shapes and forms.....	do.....	5,042	10,305	10,442	15,777	r6,133	r11,971	(NA)	(NA)
	Copper and copper-base alloy:									
335111	Bare wire for electrical conduction..	1,000 lbs....	374	389	1,241	915	r273	r252	(NA)	(NA)
363111	Insulated wire and cable.....	1,000 lbs. copper content.....	4,008	7,219	5,366	7,672	r470	r989	(NA)	(NA)
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs....	659	645	1,514	1,047	r4,137	r2,340	(NA)	(NA)
	Aluminum and aluminum-base alloy:									
335257	Sheet, plate, and foil.....	do.....	76,104	57,870	173,206	133,483	r41,275	r29,375	(NA)	(NA)
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	33,990	34,793			r37,113	r23,356	(NA)	(NA)
	Castings (rough and semifinished): <sup>1</sup>									
332311	Steel.....	Short tons....	1,028	1,718	1,264	1,626	r17,212	r20,214	(NA)	(NA)
336121	Copper and copper-base alloy.....	1,000 lbs....	126	161	381	475	r700	r682	(NA)	(NA)
336111	Aluminum and aluminum-base alloy.....	do.....	5,143	9,986	13,197	17,064	13,008	13,791	(NA)	(NA)
339111	Iron and steel forgings.....	Short tons....	3,032	7,358	( <sup>2</sup> )	( <sup>2</sup> )	r29,810	r17,612	(NA)	(NA)
339941	Aluminum and aluminum-base alloy forgings..	1,000 lbs....	12,613	25,452	( <sup>2</sup> )	( <sup>2</sup> )	10,412	11,028	(NA)	(NA)
	Fractional horsepower electric motors (under 1 horsepower):									
361412	Timing motors, synchronous and sub-synchronous.....	Thousands.....	37	3636	370	33,912	44	3,223	(NA)	(NA)
361419	All other fractional horsepower electric motors.....	do.....					30	2,339	(NA)	(NA)
359311	Ball and roller bearings.....		xxx	12,206	xxx	5,281	xxx	5,998	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	2,355,562	xxx	2,439,629	xxx	r734,291	(NA)	(NA)
973000	Materials, components, parts, containers, and supplies, nsk.....		xxx	4,943	xxx	(NA)	xxx	14,421	(NA)	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954		1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3722—AIRCRAFT ENGINES AND PARTS				INDUSTRY 3723—AIRCRAFT PROPELLERS AND PARTS			
	Materials, parts, containers and supplies, total.....		xxx	1,442,387	xxx	1,632,474	xxx	98,042	xxx	93,360
	Mill shapes and forms (except castings)									
	Carbon steel:									
331211	Bars and bar shapes.....	Short tons....	165,769	112,732	14,389	2,413	232	134	3,628	564
331212	Sheet and strip.....	do.....	22,573	4,487	60,190	8,480				
331213	Plates.....	do.....	8,314	1,337	6,029	682				
331215	Structural shapes.....	do.....	1,275	217	963	158				
331217	Wire and wire products.....	do.....	696	350	998	386				
331219	All other carbon steel mill shapes and forms.....	do.....	6,507	4,215	1,750	587				
	Alloy steel (except stainless):									
331221	Bars and bar shapes.....	do.....	14,217	9,107	16,572	7,479	2,494	2,247	4,373	2,926
331225	All other alloy steel mill shapes and forms.....	do.....	10,750	11,040	6,643	5,427			1,409	760
331231	Stainless steel mill shapes and forms...	do.....	24,312	50,781	31,656	49,069			121	148
	Copper and copper-base alloy:									
363111	Insulated wire and cable.....	1,000 lbs. copper content.....	429	356	728	678	xxx	xxx	xxx	xxx
335111	Bare wire for electrical conduction only.....	1,000 lbs.....	836	524	2,046	1,046	(NA)	99	(NA)	(2)
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....					(NA)		(NA)	(2)
	Aluminum and aluminum-base alloy:									
335257	Sheet, plate, and foil.....	do.....	3,099	2,833	10,113	6,578	222	415	828	503
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	5,062	3,471						
	Castings (rough and semifinished):									
332311	Steel.....	Short tons....	21,316	39,507	16,459	22,464	xxx	xxx	xxx	xxx
336121	Copper and copper-base alloy.....	1,000 lbs.....	1,067	846	2,398	1,602	568	609	396	846
336111	Aluminum and aluminum-base alloy.....	do.....	8,243	10,258	15,418	15,109	xxx	xxx	xxx	xxx
339111	Iron and steel forgings.....	Short tons....	59,139	126,240	(2)	(2)	xxx	xxx	xxx	xxx
339941	Aluminum and aluminum-base alloy forgings..	1,000 lbs.....	12,076	13,476	(2)	(2)	xxx	xxx	xxx	xxx
	Fractional horsepower electric motors (under 1 horsepower):									
361412	Timing motors, synchronous and sub-synchronous.....	Thousands.....	12	713	31	2,447	xxx	xxx	xxx	xxx
361419	All other fractional horsepower electric motors.....	do.....					xxx	xxx	xxx	xxx
359311	Ball and roller bearings.....		xxx	15,813	xxx	19,548	xxx	xxx	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	1,131,142	xxx	1,488,321	xxx	93,191	xxx	287,613
973000	Materials, components, parts, nsk.....		xxx	2,942	xxx	(NA)	xxx	1,347	xxx	(NA)

NA Not available. <sup>1</sup>Revised.<sup>1</sup>Does not include castings produced and consumed at the same establishment.<sup>2</sup>Comparable data included with all other materials and components.<sup>3</sup>Change in number and value of motors between 1954 and 1958 is due largely to changes in industry classification of some establishments.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>1</sup> (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3721	AIRCRAFT (entire industry).....	127	377,383	2,340,306	251,249	508,195	1,334,705	3,399,163	3,038,904	6,438,067	93,752
	Establishments with:										
	90% or more specialization.....	87	160,354	994,971	109,130	220,374	599,599	1,485,629	1,400,344	2,900,815	39,938
	75-89% specialization.....	13	71,580	454,560	46,593	91,994	245,005	623,927	610,361	1,228,534	16,548
37211	Complete military aircraft (primary product class of estab.)..	80	322,079	2,010,358	210,362	424,146	1,118,987	2,948,055	2,790,310	5,747,433	86,056
	Establishments with:										
	90% or more specialization....	44	2,324	12,650	1,767	4,525	8,195	19,430	14,113	33,543	712
	75-89% specialization.....	12	98,388	603,196	66,948	133,567	364,568	858,693	1,104,254	1,962,947	20,692
37212	Complete commercial, personal, and utility type aircraft (primary product class of estab.).....	13	28,010	163,486	21,610	44,231	116,118	244,556	162,238	406,794	4,342
37214	Modifications, conversions, and overhaul of previously accepted aircraft (primary product class of estab.).....	12	17,485	98,605	14,006	29,546	73,906	113,541	40,546	154,125	1,067
37216	Other aeronautical services for aircraft (primary product class of estab.).....	21	9,717	67,472	5,184	10,120	25,332	82,788	45,445	128,215	2,237
3722	AIRCRAFT ENGINES AND PARTS (entire industry).....	223	159,094	999,237	94,531	194,858	509,724	1,615,671	1,719,082	3,512,073	55,883
	Establishments with:										
	90% or more specialization.....	161	131,193	825,624	76,735	158,623	412,510	1,354,346	1,458,134	2,972,942	44,832
	75-89% specialization.....	17	5,182	31,668	3,867	8,143	20,239	57,238	35,682	98,559	1,683
37223	Other aeronautical services on air- craft and missile engines (primary product class of estab.).....	20	33,488	244,403	12,193	25,906	72,285	338,959	232,304	573,811	15,966
	Establishments with:										
	90% or more specialization....	11	13,982	103,984	4,462	9,362	24,726	144,697	128,453	274,870	9,013
37224	Aircraft engine parts (including parts for missile engines) (primary product class of estab.)..	147	63,185	380,329	40,337	81,883	216,551	619,026	502,307	1,142,392	18,332
	Establishments with:										
	90% or more specialization....	97	22,640	132,495	16,426	33,502	87,694	205,690	133,033	347,723	3,910
	75-89% specialization.....	14	5,404	32,329	4,102	8,660	21,169	60,252	37,483	103,084	1,486
3723	AIRCRAFT PROPELLERS AND PARTS (entire industry).....	18	15,505	85,635	9,617	19,363	49,478	112,301	106,642	235,270	5,107
3729	AIRCRAFT EQUIPMENT, NEC (entire industry).....	1,201	213,500	1,294,872	144,102	296,671	781,914	1,797,203	1,155,011	3,031,089	50,757
	Establishments with:										
	90% or more specialization.....	867	105,786	640,982	74,655	154,513	405,015	941,548	666,927	1,615,746	25,335
	75-89% specialization.....	57	37,793	235,780	22,982	47,052	122,979	320,254	127,423	469,694	9,386
37291	Other aircraft parts and auxiliary equipment (primary product class of estab.).....	1,035	195,027	1,171,821	132,837	274,865	719,483	1,614,451	1,071,014	2,769,058	46,005
	Establishments with:										
	90% or more specialization....	857	90,341	539,993	68,092	141,143	367,549	783,780	517,128	1,307,869	21,369
	75-89% specialization.....	53	13,902	79,353	9,761	19,949	50,904	106,670	62,818	188,288	5,601

<sup>1</sup>Revised.

<sup>2</sup>For Industry 3721 value of work done is used in place of value of shipments.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3721—AIRCRAFT								
Ferrous foundry.....	1	1	...	...	(D)	(D)	...	...
Nonferrous foundry (except die casting).....	15	4	5	6	239	12	40	187
Forging.....	6	1	1	4	251	(D)	(D)	(D)
Electroplating.....	21	5	8	8	403	15	65	323
Galvanizing and other hot dip coating.....	7	...	5	2	119	...	(D)	(D)
Heat treating and annealing.....	29	7	9	13	655	11	100	544
Automatic screw machine department.....	17	8	8	1	338	(D)	72	(D)
Machine shop.....	72	8	18	46	15,333	20	204	15,109
Tool and die shop.....	46	10	10	26	11,128	28	96	11,004
Foundry pattern shop.....	27	8	6	13	1,154	17	69	1,068
Plate or structural fabrication.....	30	4	7	19	18,693	10	69	18,614
Stamping, blanking, and forming.....	44	9	6	29	8,083	21	53	8,009
Painting, lacquering, and enameling.....	47	16	11	20	2,938	28	127	2,783
INDUSTRY 3722—AIRCRAFT ENGINES AND PARTS								
Ferrous foundry.....	5	1	1	3	208	(D)	(D)	(D)
Nonferrous foundry (except die casting).....	9	4	2	3	205	10	(D)	(D)
Forging.....	14	2	1	11	983	(D)	(D)	962
Electroplating.....	r24	9	7	r8	r624	17	71	r536
Galvanizing and other hot dip coating.....	7	4	2	1	63	12	(D)	(D)
Heat treating and annealing.....	r65	30	20	r15	r1,041	67	175	r799
Automatic screw machine department.....	31	13	5	13	694	37	39	618
Machine shop.....	r147	4	41	r102	r34,912	12	430	r34,470
Tool and die shop.....	r80	14	30	r36	r4,519	31	259	r4,229
Foundry pattern shop.....	10	5	2	3	169	7	(D)	(D)
Plate or structural fabrication.....	r22	8	5	r9	r926	18	55	r853
Stamping, blanking, and forming.....	r56	18	18	r20	r2,344	39	165	r2,140
Painting, lacquering, and enameling.....	r44	27	13	r4	r393	51	120	r222
INDUSTRY 3723—AIRCRAFT PROPELLERS AND PARTS								
Electroplating.....	5	2	2	1	71	(D)	(D)	(D)
Heat treating and annealing.....	6	2	2	2	104	(D)	(D)	(D)
Automatic screw machine department.....	5	4	...	1	54	(D)	...	(D)
Machine shop.....	10	1	4	6	2,687	(D)	(D)	2,648
Tool and die shop.....	5	1	1	3	340	(D)	(D)	329
Painting, lacquering, and enameling.....	4	3	1	...	27	(D)	(D)	...
INDUSTRY 3729—AIRCRAFT EQUIPMENT, NEC								
Ferrous foundry.....	8	3	2	3	251	(D)	(D)	225
Nonferrous foundry (except die casting).....	15	3	6	6	357	8	51	298
Forging.....	16	7	8	1	129	20	(D)	(D)
Electroplating.....	r48	25	20	r3	r410	48	188	r174
Galvanizing and other hot dip coating.....	18	12	4	2	109	29	(D)	(D)
Heat treating and annealing.....	r109	64	31	r14	r1,003	121	294	r588
Automatic screw machine department.....	84	39	27	18	1,155	79	255	821
Machine shop.....	r412	29	132	r251	r30,913	68	1,441	r29,404
Tool and die shop.....	r180	52	72	r56	r6,042	127	703	r5,212
Foundry pattern shop.....	30	15	9	6	617	40	72	505
Plate or structural fabrication.....	r68	13	20	r35	r5,545	29	204	r5,312
Stamping, blanking, and forming.....	r134	47	51	r35	r5,073	110	499	r4,464
Painting, lacquering, and enameling.....	r157	104	36	r17	r1,649	203	305	r1,141

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry			
	3721	3722	3723	3729
Total number of establishments in the industry.....	127	r223	18	r1,201
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	114	r187	15	r1,060
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	90-95	90-95	over 95

D Withheld to avoid disclosing figures for individual companies. r Revised.



# Ship and Boat Building, Railroad and Miscellaneous Transportation Equipment

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I. C. Code and Title (1957 Edition)

3731—Ship Building and Repairing  
3732—Boat Building and Repairing  
3741—Locomotives and Parts  
3742—Railroad and Street Cars  
3751—Motorcycles, Bicycles and Parts  
3791—Trailer Coaches  
3799—Transportation Equipment, Not Elsewhere Classified.

### 3731—Ship Building and Repairing

This industry comprises establishments primarily engaged in building and repairing all types of ships, barges, canal boats and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and reconversion of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installations, etc. are not classified in this industry. For a detailed list of products of Industry 3731, refer to table 6A, product codes 3731110 to 3731659.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

The total value of work done and other receipts of the Ship Building and Repairing Industry in 1958 totaled \$1,626 million. This included receipts from primary activities (ship building and repairing) valued at \$1,453 million, shipments of products primary to other industries (secondary products) valued at \$111 million, and miscellaneous receipts of \$62 million.

The value of ship building and repairing represents value of work done during the year. This provides a more adequate measure of the activity in this industry than value of vessels completed and delivered, primarily because of length of the production cycle, which may be several years for some vessels. Value of shipments (deliveries) would result in a distortion for establishments working on a vessel all year, but not completing it during the year or, conversely, for establishments completing and delivering a vessel during a year when most of the work was performed in previous years. Respondents were requested to compute the value of work done by including the cost of labor, the cost of purchased materials and parts received during 1958, overhead and profits by one of the following methods: (1) estimating the percentage of completion during 1958, (2) reporting net billings for work done during 1958, or (3) reporting payments received for work done during 1958.

The industry's receipts for ship building and repairing (primary activities) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent. Secondary products shipped by this in-

dustry in 1958 consisted of fabricated structural iron and steel for buildings, \$3 million; fabricated structural iron and steel for bridges, \$5 million; other fabricated structural iron and steel, \$14 million; and boat building and repairing activities, \$13 million. Additional product classes of \$2 million or more shipped by Industry 3731 as secondary products are listed in footnote 4 to table 5B.

While the primary activities of the industry include new construction of non-propelled ships, new construction of self-propelled military and nonmilitary ships, and ship repair, the degree to which plants specialize in each of these activities is indicated in table 8. Approximately 41 percent of the total industry value of work done is represented by plants specializing in new construction of nonmilitary self-propelled ships; 25 percent in new construction of military self-propelled ships; and 22 percent in repair of nonmilitary ships.

Industry 3731 receipts from ship building and repairing (primary activities) in 1958 represented 99 percent (coverage ratio) of these activities valued at \$1,467 million performed by all industries. In 1954, the coverage ratio was also 99 percent.

### 3732—Boat Building and Repairing

This industry comprises establishments primarily engaged in building and repairing of boats, except rubber boats (Industry 3069). Establishments primarily engaged in cleaning and storing boats and the rental of dock space, and yacht clubs are classified in nonmanufacturing industries. For a detailed list of products of Industry 3732, refer to table 6A, product codes 3732111 to 3732421.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Boat Building and Repairing Industry in 1958 totaled \$329 million. This included both shipments of newly constructed boats and receipts for boat repairs (primary products), valued at \$285 million, shipments of other products (secondary products) valued at \$20 million, and miscellaneous receipts (mainly resales) of \$24 million.

This industry's shipments of newly constructed boats and receipts for repair of boats (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was also 93 percent. Secondary products shipped by this industry in 1958 consisted mainly of newly constructed and repaired ships, \$10 million; and fabricated structural iron and steel, over \$2 million.

While the primary products of the industry include both newly constructed and repaired inboard, outboard and other boats, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 25 percent of the total industry shipments are represented by plants specializing in inboard motor boats; 35 percent in outboard motor boats; and 20 percent in boat repair.



Industry 3732 shipments of newly constructed boats and receipts for repair of boats (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$300 million shipped by all industries. In 1954, the coverage ratio was 85 percent. Another industry both shipping newly constructed boats and repairing boats (primary products) was Industry 3731, Ship Building and Repairing, over \$7 million.

#### 3741--Locomotives and Parts

This industry comprises establishments primarily engaged in building and rebuilding locomotives (including frames and parts, not elsewhere classified) of any type or gauge. Railroad shops rebuilding and repairing locomotives, or building new locomotives, are classified in Major Group 40. For a detailed list of products of Industry 3741, refer to table 6A, product codes 3741115 to 3741351.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Locomotives and Parts Industry in 1958 totaled \$407 million. This included shipments of locomotives and parts (primary products), valued at \$321 million, shipments of other products (secondary products) valued at \$56 million, and miscellaneous receipts (mainly resales) of \$30 million.

This industry's shipments of locomotives and parts (primary products) in 1958 represented 85 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 82 percent. Industry 3741 shipments of locomotives and parts (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$355 million shipped by all industries. In 1954, the coverage ratio was 95 percent.

#### 3742--Railroad and Street Cars

This industry comprises establishments primarily engaged in building and rebuilding railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley busses. Establishments primarily engaged in manufacturing mining cars are classified in Industry 3532. Repair shops owned and operated by railroad or local transit companies, rebuilding or repairing cars, or building new cars for their own account, are classified in Major Groups 40 and 41. For a detailed list of products of Industry 3742, refer to table 6A, product codes 3742111 to 3742351.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Railroad and Street Cars Industry in 1958 totaled \$562 million. This included shipments of railroad and street cars (primary products), valued at \$474 million, shipments of other products (secondary products) valued at \$69 million, and miscellaneous receipts of \$19 million.

This industry's shipments of railroad and street cars (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 83 percent.

While the primary products of the industry include freight train cars, street cars, and parts and accessories, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 68 percent of the total industry shipments are represented by plants specializing in freight train cars; and 30 percent in street cars, parts, and accessories.

Industry 3742 shipments of railroad and street cars (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$529 million shipped by all industries. In 1954, the coverage ratio was 86 percent.

#### 3751--Motorcycles, Bicycles, and Parts

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in Industry 3943. For a detailed list of products of Industry 3751, refer to table 6A, product codes 3751013 to 3751071.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Motorcycles, Bicycles, and Parts Industry in 1958 totaled \$122 million. This included shipments of motorcycles, bicycles, and parts (primary products), valued at \$99 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales) of \$4 million.

This industry's shipments of motorcycles, bicycles, and parts (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 86 percent. Secondary products shipped by this industry in 1958 consisted mainly of lawn mowers and parts, electric fans, and children's vehicles, over \$2 million each.

Industry 3751 shipments of motorcycles, bicycles, and parts (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$106 million shipped by all industries. In 1954, the coverage ratio was 92 percent.

#### 3791--Trailer Coaches

This industry comprises establishments primarily engaged in manufacturing trailer coaches (mobile dwellings) for attachment to passenger cars. (Refer to table 6A, product code 3791011.)

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were changed to code number 3791 from code number 3716 in the previous classification system and were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Boat trailers, and other automobile trailers except trailer coaches, and chassis for automobile trailers, sold separately, formerly classified in this industry are now considered primary to Industry 3799, Transportation Equipment, N.E.C.



Value of shipments and other receipts of the Trailer Coaches Industry in 1958 totaled \$461 million. This included shipments of trailer coaches, housing type (primary products), valued at \$442 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly resales) of \$15 million.

This industry's shipments of trailer coaches, housing type (primary products) in 1958 represented 99 percent (specialization ratio) of its total product shipments (primary and secondary). Industry 3791 shipments of trailer coaches, housing type (primary products) in 1958 represented 99 percent (coverage ratio) of these products valued at \$445 million shipped by all industries.

#### 3799—Transportation Equipment, N.E.C.

This industry comprises establishments primarily engaged in manufacturing transportation equipment, not elsewhere classified. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in Industry 3537, and children's vehicles, except bicycles, in Industry 3943. For a detailed list of products of Industry 3799, refer to table 6A, product codes 3799115 to 3799298.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number but were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. Boat trailers, and other automobile trailers except trail-

er coaches, and chassis for automobile trailers, sold separately, formerly classified in old Industry 3716, Automobile Trailers (new Industry 3791, Trailer Coaches, Housing Type) are included in Industry 3799, Transportation Equipment, Not Elsewhere Classified.

Value of shipments and other receipts of the Transportation Equipment, N.E.C. Industry in 1958 totaled \$93 million. This included shipments of transportation equipment, n.e.c. (primary products), valued at \$73 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts of \$8 million. This industry's shipments of transportation equipment, not elsewhere classified (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary).

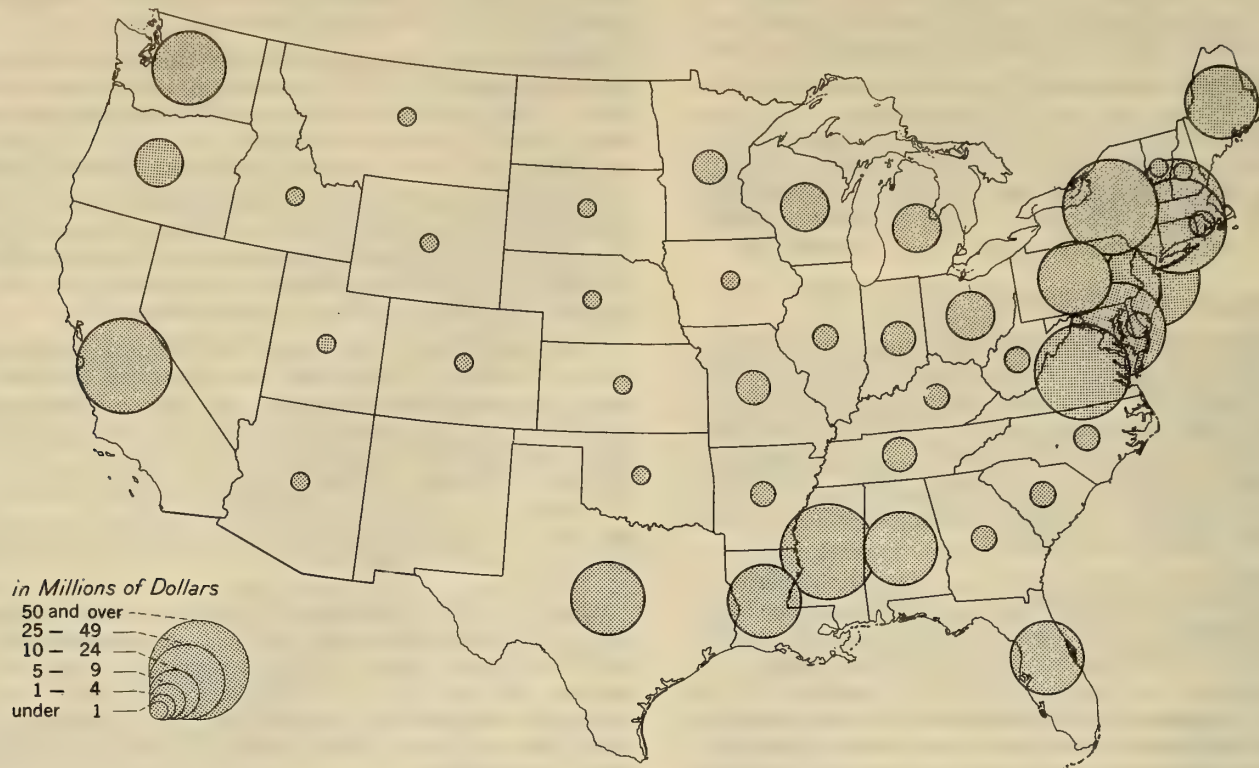
While the primary products of the industry include automobile trailers, excluding housing type coaches, and other transportation equipment, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 26 percent of the total industry shipments are represented by plants specializing in automobile trailers, excluding housing type trailers; and the remaining 74 percent in other transportation equipment.

Industry 3799 shipments of transportation equipment, n.e.c. (primary products) in 1958 represented 73 percent (coverage ratio) of these products valued at \$100 million shipped by all industries. Another industry shipping transportation equipment, n.e.c. (primary products) was Industry 3522, Farm Machinery and Equipment, \$18 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## SHIP AND BOAT BUILDING AND REPAIRING: SIC 373

Value Added by Manufacture by State: 1958

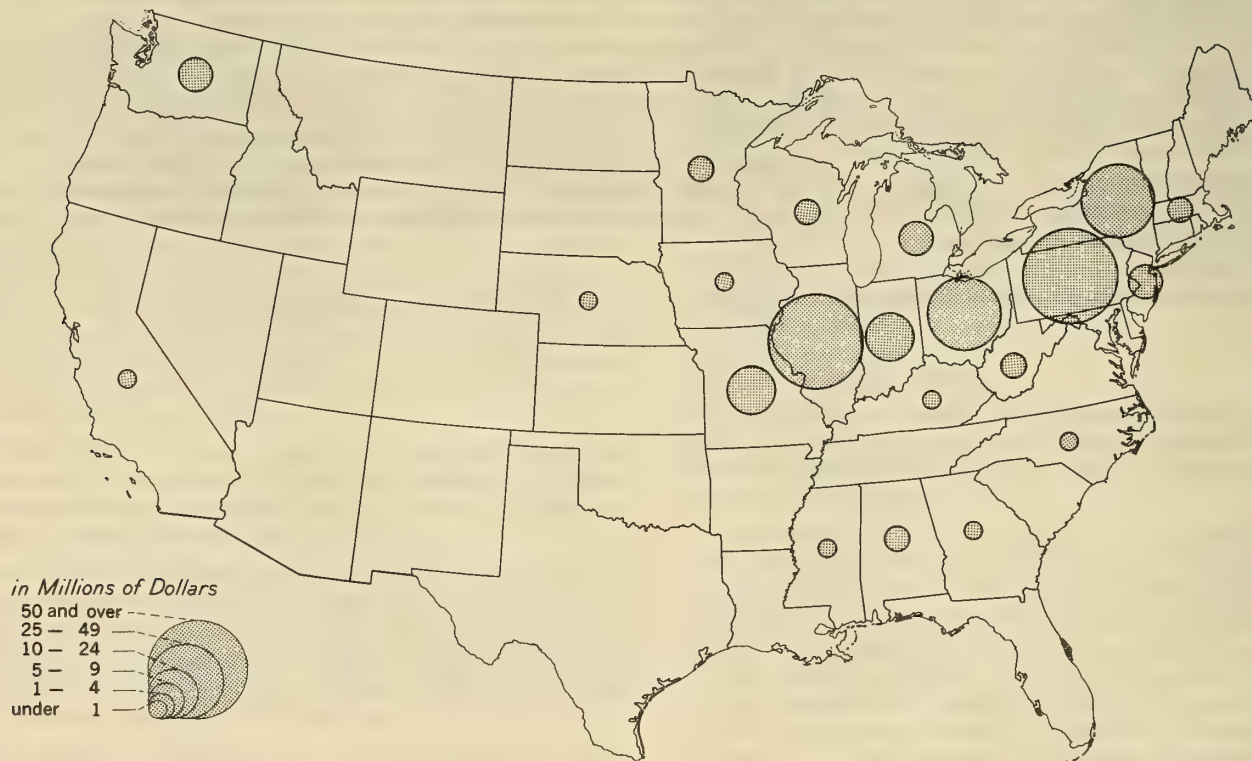


Includes Industries 3731 and 3732. See Table 2.

Bureau of the Census M-58-D373

## RAILROAD EQUIPMENT: SIC 374

Value Added by Manufacture by State: 1958



Includes Industries 3741 and 3742. See Table 2.

Bureau of the Census M-58-D374



## MOTORCYCLES, BICYCLES, AND PARTS: SIC 375

Value Added by Manufacture by State: 1958

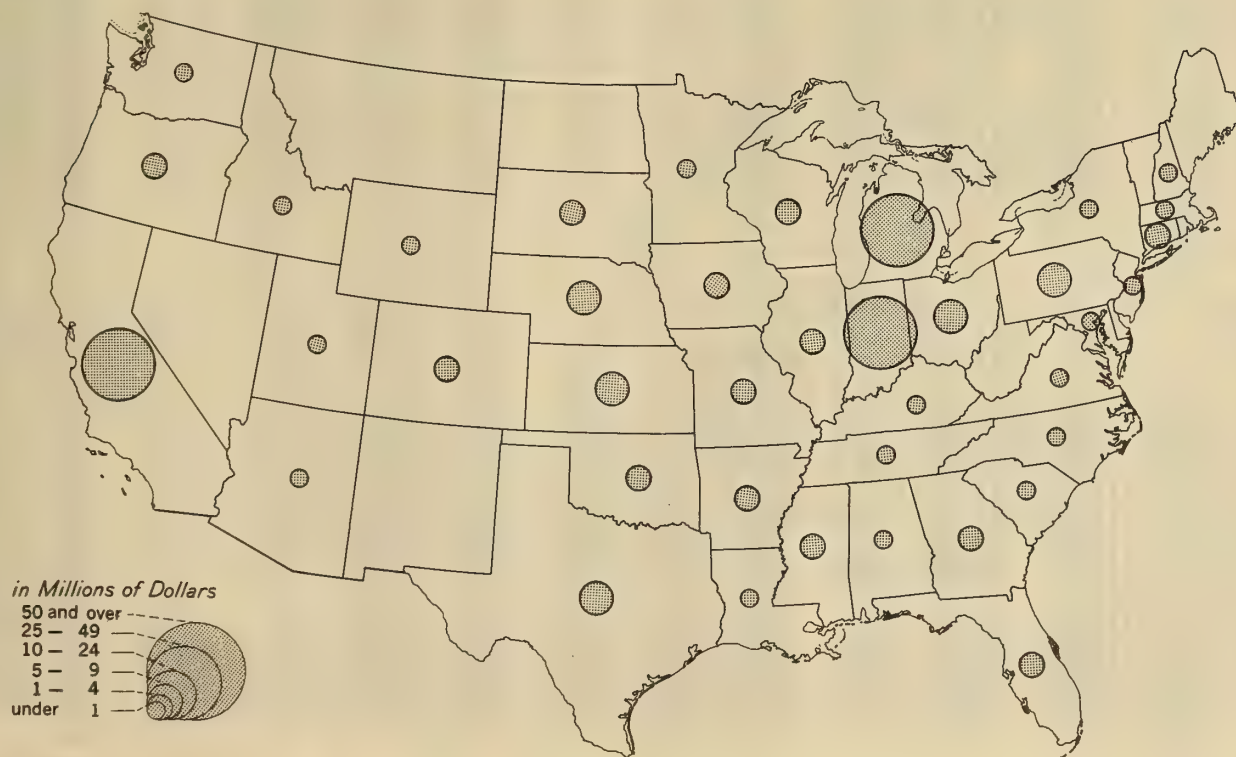


Includes only Industry 3751. See Table 2.

Bureau of the Census M-58-D375

## MISCELLANEOUS TRANSPORTATION EQUIPMENT: SIC 379

Value Added by Manufacture by State: 1958



Includes Industries 3791 and 3799. See Table 2.

Bureau of the Census M-58-D379

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3731 (old SIC 3731)	Ship building and repairing:														
	1958.....	286	319	222	119,147	669,826	101,153	197,707	537,814	<sup>8</sup> 913,687	711,937	1,625,624	38,737	93	99
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	121,738	653,534	106,115	207,898	542,450	<sup>8</sup> 842,193	672,675	1,514,367	57,985	91	99
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	107,245	545,725	93,056	181,155	449,593	<sup>8</sup> 685,898	497,906	1,183,289	36,465	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	101,767	486,797	88,148	172,520	404,535	<sup>8</sup> 651,516	401,413	1,052,463	19,439	(NA)	(NA)
	1954.....	328	355	245	109,451	504,470	96,196	187,982	421,791	<sup>8</sup> 692,796	391,445	1,084,242	19,316	92	99
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	136,562	602,169	120,686	241,576	512,191	802,794	511,064	1,313,858	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	140,669	592,603	123,814	246,734	503,233	774,775	561,823	1,336,598	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	107,694	416,074	92,217	180,691	334,671	501,997	382,839	884,836	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	74,938	253,730	62,334	116,635	194,855	326,767	239,582	566,349	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	90,969	(NA)	76,673	145,491	(NA)	390,862	310,294	701,156	(NA)	(NA)	(NA)
	1947.....	272	302	(NA)	130,805	417,829	115,232	234,103	352,401	520,363	282,198	802,561	(NA)	94	98
3732 (old SIC 3732)	Boat building and repairing:														
	1958.....	1,626	1,651	277	25,295	103,603	21,156	40,346	81,356	157,309	178,803	329,009	15,298	93	95
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	22,416	89,727	19,587	40,127	71,561	156,235	146,104	298,542	5,396	94	90
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,243	80,464	18,764	38,554	65,722	144,883	130,497	268,275	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,848	68,141	17,871	35,560	56,151	118,064	94,936	207,686	(S)	(NA)	(NA)
	1954.....	1,146	1,154	189	16,900	57,599	14,709	28,630	47,112	86,305	77,422	163,626	4,804	93	85
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,352	41,306	10,929	22,689	35,174	60,215	62,532	122,747	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,195	37,330	9,608	18,626	31,248	54,971	45,988	100,959	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,856	29,326	7,670	14,886	24,285	45,466	31,426	76,892	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,706	35,679	10,188	20,310	29,645	52,924	(NA)	(NA)	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	11,486	(NA)	8,741	18,342	(NA)	46,955	(NA)	(NA)	(NA)	(NA)	(NA)
	1947.....	798	808	(NA)	18,850	49,756	16,801	35,033	41,970	66,195	48,179	114,374	(NA)	83	88
3731 and 3732	Total for ship building and repairing and boat building and repairing for 1939 and earlier years: <sup>10</sup>														
	1939.....	(NA)	608	(NA)	78,127	130,047	69,241	(NA)	107,570	179,898	158,374	338,272	(NA)	(NA)	(NA)
	1937.....	(NA)	544	(NA)	69,887	112,977	62,274	(NA)	93,746	149,045	101,412	250,457	(NA)	(NA)	(NA)
	1935.....	(NA)	556	(NA)	51,321	70,309	44,830	(NA)	55,422	93,791	61,109	154,900	(NA)	(NA)	(NA)
	1933.....	(NA)	395	(NA)	34,753	41,384	30,885	(NA)	33,890	61,524	31,172	92,696	(NA)	(NA)	(NA)
	1931.....	(NA)	518	(NA)	(NA)	(NA)	45,262	(NA)	62,028	114,671	72,322	186,993	(NA)	(NA)	(NA)
	1929.....	(NA)	624	(NA)	61,024	103,992	55,089	(NA)	88,274	145,451	85,849	231,300	(NA)	(NA)	(NA)
	1927.....	(NA)	559	(NA)	60,494	101,688	55,014	(NA)	87,081	132,501	78,626	271,127	(NA)	(NA)	(NA)
	1925.....	(NA)	565	(NA)	55,383	87,324	50,224	(NA)	74,275	110,883	66,299	177,182	(NA)	(NA)	(NA)
	1923.....	(NA)	567	(NA)	67,999	105,248	62,287	(NA)	90,720	128,674	84,558	213,232	(NA)	(NA)	(NA)
	1921.....	(NA)	640	(NA)	114,257	179,844	106,445	(NA)	155,943	231,466	169,368	400,834	(NA)	(NA)	(NA)
	1919.....	(NA)	1,075	(NA)	412,420	662,561	387,446	(NA)	597,447	911,838	710,523	1,622,361	(NA)	(NA)	(NA)
	1914.....	(NA)	1,147	(NA)	47,475	37,690	44,489	(NA)	32,931	50,085	38,597	88,682	(NA)	(NA)	(NA)
	1909.....	(NA)	1,353	(NA)	43,486	29,303	40,506	(NA)	25,268	42,146	31,214	73,360	(NA)	(NA)	(NA)
	1904.....	(NA)	1,097	(NA)	53,234	32,581	50,754	(NA)	29,241	45,306	37,463	82,769	(NA)	(NA)	(NA)
	1899.....	(NA)	1,107	(NA)	48,152	26,832	46,747	(NA)	24,825	41,057	33,475	74,332	(NA)	(NA)	(NA)
3741 (old SIC 3741)	Locomotives and parts:														
	1958.....	24	25	13	15,282	90,097	10,742	21,092	58,332	152,086	224,754	407,540	5,275	85	90
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,790	115,897	16,064	31,801	83,522	242,227	345,910	613,110	12,191	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	23,841	134,612	18,499	38,768	96,010	303,962	370,781	645,378	15,006	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,372	115,484	16,717	34,026	82,124	233,865	270,404	478,871	6,921	(NA)	(NA)
	1954.....	25	29	23	20,891	104,274	15,968	31,439	70,575	164,006	254,656	444,418	6,370	82	95
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	28,636	127,855	22,409	43,437	95,696	227,239	373,778	601,017	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	30,647	142,313	24,804	51,794	107,731	275,573	456,647	732,220	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	33,742	143,334	27,254	55,198	111,323	304,025	488,128	792,153	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	30,089	114,588	24,194	47,926	87,316	223,775	422,427	646,202	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	29,798	117,533	23,243	51,126	89,091	204,440	403,273	607,713	(NA)	(NA)	(NA)
	1947.....	33	36	(NA)	30,419	97,896	25,432	50,677	78,338	143,092	212,113	355,205	(NA)	95	83
	1939.....	(NA)	20	(NA)	(NA)	(NA)	6,998	(NA)	10,486	23,450	27,903	51,353	(NA)	(NA)	(NA)
	1937.....	(NA)	13	(NA)	10,989	19,336	9,000	(NA)	14,845	32,857	39,266	72,123	(NA)	(NA)	(NA)
	1935.....	(NA)	14	(NA)	4,734	5,925	3,790	(NA)	3,972	7,890	9,493	17,383	(NA)	(NA)	(NA)
	1933.....	(NA)	13	(NA)	3,200	3,292	2,374	(NA)	1,863	2,661	4,266	6,927	(NA)	(NA)	(NA)
	1931.....	(NA)	16	(NA)	(NA)	(NA)	5,443	(NA)	5,590	7,248	14,871	22,119	(NA)	(NA)	(NA)
	1929.....	(NA)	16	(NA)	12,846	23,514	11,045	(NA)	17,994	31,050	52,808	83,858	(NA)	(NA)	(NA)
	1927.....	(NA)	17	(NA)	14,611	22,632	12,961	(NA)	17,648	31,031	45,688	76,719	(NA)	(NA)	(NA)
	1925.....	(NA)	18	(NA)	14,673	23,456	12,809	(NA)	18,219	23,672	41,717	65,389	(NA)	(NA)	(NA)
	1923.....	(NA)	19	(NA)	33,583	58,591	30,672	(NA)	51,867	91,131	124,262	215,393	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ial- iza- tion ratio <sup>6</sup> (per- cent)	Cov- er- age ratio <sup>7</sup> (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3741	Locomotives and parts--Con.														
	1921.....	(NA)	22	(NA)	18,327	24,576	16,583	(NA)	20,473	46,611	55,412	102,023	(NA)	(NA)	(NA)
	1919.....	(NA)	17	(NA)	28,741	43,577	26,715	(NA)	38,799	83,894	72,376	156,270	(NA)	(NA)	(NA)
	1914.....	(NA)	19	(NA)	19,047	13,862	17,391	(NA)	11,085	19,828	23,546	43,374	(NA)	(NA)	(NA)
	1909.....	(NA)	16	(NA)	16,938	11,211	14,909	(NA)	8,914	16,522	15,060	31,582	(NA)	(NA)	(NA)
	1904.....	(NA)	15	(NA)	25,970	17,474	24,806	(NA)	15,798	31,849	27,703	59,552	(NA)	(NA)	(NA)
	1899.....	(NA)	28	(NA)	(NA)	(NA)	19,039	(NA)	10,900	15,035	20,174	35,209	(NA)	(NA)	(NA)
3742 (old SIC 3742)	Railroad and street cars:														
	1958.....	56	67	44	24,309	132,302	17,892	32,565	91,089	167,576	310,796	562,190	8,635	87	90
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	35,950	198,577	29,498	57,767	151,982	362,233	593,396	939,846	11,968	88	91
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	31,837	164,428	25,963	51,250	125,232	288,106	451,956	725,138	18,316	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	31,420	149,431	25,171	49,341	113,497	247,929	355,936	568,975	16,124	(NA)	(NA)
	1954.....	47	57	40	30,683	139,261	23,828	44,969	102,457	164,044	282,978	499,294	19,074	83	86
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	45,642	206,751	37,742	75,706	163,788	324,742	509,905	834,647	(NA)	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	43,354	181,225	35,637	69,472	140,570	265,695	443,499	709,194	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	47,702	186,437	38,800	76,320	143,919	292,547	535,911	828,458	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	39,503	138,520	31,309	60,123	101,575	204,078	357,564	561,642	(NA)	(NA)	(NA)
	1946 <sup>9</sup> .....	(NA)	(NA)	(NA)	52,457	179,843	42,440	82,745	136,483	267,917	505,266	773,183	(NA)	(NA)	(NA)
	1947.....	68	87	(NA)	60,851	186,107	50,292	101,184	146,848	273,130	453,037	726,167	(NA)	91	91
	1939.....	(NA)	48	(NA)	(NA)	(NA)	17,711	(NA)	23,827	58,801	85,538	144,339	(NA)	(NA)	(NA)
3751 (old SIC 3751)	Motorcycles, bicy- cles, and parts:														
	1958.....	49	51	29	7,578	33,020	6,179	12,213	24,115	52,125	69,106	121,527	2,549	84	93
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,419	35,205	6,972	13,374	27,024	53,819	73,590	127,409	(S)	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,584	31,580	6,337	12,240	24,843	49,381	70,874	120,255	2,671	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,088	32,443	6,589	12,804	25,646	47,962	72,005	117,965	1,747	(NA)	(NA)
	1954.....	44	46	29	7,061	28,060	5,979	11,121	21,639	40,177	57,983	100,477	1,476	86	92
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,340	36,808	8,068	15,686	29,717	52,376	83,429	135,805	1,829	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,178	43,391	8,720	17,800	35,188	65,405	71,311	136,716	2,190	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,448	37,185	8,034	16,231	29,052	54,009	68,506	122,515	3,122	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	10,895	35,547	8,565	17,218	28,269	52,098	64,696	116,794	2,066	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,531	31,269	7,986	14,880	23,176	47,308	56,390	103,698	1,526	(NA)	(NA)
	1947.....	75	76	40	15,615	45,661	13,659	28,245	37,732	72,838	90,832	163,670	4,600	87	89
	1939.....	(NA)	36	(NA)	8,302	11,863	6,973	(NA)	8,974	19,011	24,041	43,052	(NA)	(NA)	(NA)
	1937.....	(NA)	29	(NA)	7,816	10,076	6,938	(NA)	8,207	16,251	19,793	36,044	(NA)	(NA)	(NA)
	1935.....	(NA)	23	(NA)	5,773	6,562	5,093	(NA)	5,214	10,273	12,813	23,086	(NA)	(NA)	(NA)
	1933.....	(NA)	19	(NA)	3,433	3,204	3,038	(NA)	2,639	5,893	6,162	12,055	(NA)	(NA)	(NA)
	1931.....	(NA)	19	(NA)	(NA)	(NA)	3,294	(NA)	3,563	8,177	5,520	13,697	(NA)	(NA)	(NA)
	1929.....	(NA)	21	(NA)	5,114	8,019	4,392	(NA)	6,264	12,614	11,281	23,895	(NA)	(NA)	(NA)
	1927.....	(NA)	29	(NA)	4,594	6,984	3,897	(NA)	5,442	11,280	10,174	21,454	(NA)	(NA)	(NA)
	1925.....	(NA)	36	(NA)	4,962	7,317	4,193	(NA)	5,662	12,081	12,177	24,258	(NA)	(NA)	(NA)
	1923.....	(NA)	39	(NA)	7,531	10,236	6,576	(NA)	8,010	14,256	18,003	32,259	(NA)	(NA)	(NA)
	1921.....	(NA)	46	(NA)	5,213	6,921	4,308	(NA)	4,981	12,775	10,323	23,098	(NA)	(NA)	(NA)
	1919.....	(NA)	51	(NA)	12,184	14,964	10,886	(NA)	12,763	27,120	25,986	53,106	(NA)	(NA)	(NA)
	1914.....	(NA)	78	(NA)	7,706	5,913	6,680	(NA)	4,739	11,306	10,928	22,234	(NA)	(NA)	(NA)
	1909.....	(NA)	95	(NA)	4,939	3,491	4,437	(NA)	2,908	5,616	5,083	10,699	(NA)	(NA)	(NA)
	1904.....	(NA)	101	(NA)	3,680	2,322	3,319	(NA)	1,971	2,525	2,628	5,513	(NA)	(NA)	(NA)
	1899.....	(NA)	312	(NA)	19,559	9,943	17,525	(NA)	8,190	15,124	16,792	31,916	(NA)	(NA)	(NA)
3791 (old SIC 3716)	Trailer coaches:														
	1958 new.....	363	386	209	18,717	77,129	16,004	30,613	58,969	127,683	332,071	461,053	6,939	99	99
	1958 <sup>11</sup> old SIC...	(NA)	505	236	20,734	85,585	17,635	33,562	64,838	145,587	359,830	506,600	8,011	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,362	81,994	16,531	31,438	61,938	148,864	330,190	471,116	(S)	97	99
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	18,087	71,904	15,625	27,826	55,662	124,198	303,205	420,073	(S)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,036	59,725	12,983	25,128	45,872	97,759	248,658	342,300	(S)	(NA)	(NA)
	1954.....	267	275	125	11,131	43,874	9,491	18,592	33,031	69,175	162,051	230,836	2,404	99	98
	1953.....	(NA)	(NA)	(NA)	12,508	49,045	10,805	20,482	38,360	78,591	162,848	241,439	(NA)	(NA)	(NA)
	1947.....	214	220	(NA)	9,562	27,778	8,529	(NA)	22,892	50,943	87,063	138,006	3,424	99	99
	1939.....	(NA)	87	(NA)	(NA)	(NA)	1,531	(NA)	1,614	3,297	5,056	8,353	(NA)	(NA)	(NA)
	1937.....	(NA)	85	(NA)	(NA)	(NA)	2,992	(NA)	3,610	5,921	7,178	13,099	(NA)	(NA)	(NA)
3799	Transportation equip- ment, nec:														
	1958 new.....	253	256	69	4,761	20,448	3,795	7,360	14,173	38,215	55,095	92,811	2,430	86	73
	1958 <sup>11</sup> old SIC...	(NA)	133	40	2,530	10,802	1,997	4,072	7,505	17,672	26,660	44,066	1,305	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	1,655	7,123	1,215	2,693	4,439	14,225	(NA)	(NA)	5,013	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	1,626	6,685	1,310	2,681	4,689	11,322	13,826	24,951	(NA)	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	1,651	6,269	1,347	2,935	4,584	12,703	15,163	26,978	(NA)	(NA)	(NA)
	1954.....	108	108	21	1,636	5,637	1,359	2,786	4,135	10,042	11,724	21,662	561	92	44

See footnotes at end of table.



## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio (percent)	Coverage ratio (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3799	Transportation equipment, nec—Con.														
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	1,950	7,261	1,683	3,680	5,623	13,560	17,777	31,337	920	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,516	8,709	2,155	4,702	6,733	15,366	20,533	35,899	1,061	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	2,774	8,866	2,252	4,848	6,433	14,439	19,382	33,821	986	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	3,152	9,035	2,519	4,986	6,122	13,397	17,861	31,258	954	(NA)	(NA)
	1947.....	(NA)	168	(NA)	4,584	11,658	3,890	(NA)	8,794	20,663	26,180	46,843	1,227	75	65
	1939.....	(NA)	41	(NA)	1,543	1,725	1,252	(NA)	1,150	3,145	3,124	6,269	(NA)	(NA)	(NA)
	1937.....	(NA)	43	(NA)	2,122	2,321	1,823	(NA)	1,723	4,505	4,633	9,138	(NA)	(NA)	(NA)
	1935.....	(NA)	45	(NA)	1,858	1,767	1,592	(NA)	1,284	3,162	3,683	6,845	(NA)	(NA)	(NA)
	1933.....	(NA)	53	(NA)	1,610	1,196	1,409	(NA)	922	2,403	2,350	4,753	(NA)	(NA)	(NA)
	1931.....	(NA)	70	(NA)	(NA)	(NA)	1,321	(NA)	1,199	2,666	2,494	5,160	(NA)	(NA)	(NA)

NA Not available. <sup>2</sup>Revised.<sup>3</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.<sup>1</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3731	691,908	3751	41,819
3732	84,507	3791	(NA)
3741	188,322	3799	(NA)
3742	215,224		

<sup>4</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc.(\$1,000)		Industry Code	Cost of Materials, etc.(\$1,000)	
	1958	1954		1958	1954
3731	703,938	385,980	3751	66,643	53,830
3732	165,990	69,861	3791	320,477	(NA)
3741	208,832	239,959	3799	52,874	(NA)
3742	307,939	280,542			

<sup>5</sup> For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments(\$1,000)		Industry Code	Value of Shipments(\$1,000)	
	1958	1954		1958	1954
3731	1,616,599	1,077,889	3751	118,298	95,649
3732	312,801	154,369	3791	448,119	(NA)
3741	387,429	428,281	3799	90,023	(NA)
3742	557,931	495,767			

<sup>6</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>7</sup> The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.<sup>8</sup> The adjusted value added figure for the Ship Building and Repairing Industry does not take into account the change in inventory between the beginning and end of each year, since the figures reported by establishments in this industry are value of work done rather than value of shipments. It does include value added by resales. For 1953 and earlier years figures represent unadjusted value added. See footnote 3 above.<sup>9</sup> The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>10</sup> For 1939 and prior years separate industry figures for "Ship building and repairing" and "Boat building and repairing" are not available. However for the period 1899-1939 combined data for the two industries are shown.<sup>11</sup> A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.



Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3791—Trailer coaches, housing type.....	386	209	18,717	127,683	xxx	xxx	xxx	xxx
Old Industry 3716—Automobile trailers.....	386	209	18,717	127,683	505	236	20,734	r 146,568
New Industry 3799—Transportation equipment, nec.....	256	69	4,761	r 38,215	xxx	xxx	xxx	xxx
Old Industry 3799—Transportation equipment, nec.....	133	40	2,530	17,672	133	40	2,530	17,672
Old Industry 3716—Automobile trailers.....	119	27	2,017	r 18,885	505	236	20,734	r 146,568
All other industries.....	4	2	214	1,658	xxx	xxx	xxx	xxx

<sup>r</sup>Revised.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expend- itures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3731	Shipbuilding and repairing, total...	319	222	119,147	669,826	101,153	197,707	537,814	913,687	1,625,624	38,737	109,451	691,908	130,805
	New England.....	31	16	21,288	131,523	16,587	35,220	91,404	198,651	348,335	7,640	14,105	95,427	9,925
	Middle Atlantic...	83	54	22,921	129,426	19,138	36,507	104,559	171,980	284,478	8,061	23,286	143,237	40,519
	New York.....	48	32	6,535	35,536	5,181	8,994	25,720	49,908	71,722	2,396	8,844	58,130	17,896
	New Jersey.....	27	17	12,060	67,454	10,506	20,493	59,122	91,396	151,306	2,529	10,185	56,885	16,131
	Pennsylvania....	8	5	4,326	26,436	3,451	7,020	19,717	30,676	61,450	3,136	4,256	28,221	6,492
	North Central....	27	23	7,200	36,525	6,357	12,575	29,927	50,707	103,700	1,680	7,753	53,954	2,546
	Ohio.....	7	5	1,666	9,058	1,555	3,071	8,169	9,628	16,383	746	1,604	12,860	495
	Michigan.....	4	4	1,702	8,595	1,494	2,798	6,784	11,826	31,363	( <sup>2</sup> )	895	5,195	601
	Wisconsin.....	6	6	2,087	10,236	1,833	3,745	8,276	16,319	26,966	( <sup>2</sup> )	3,607	23,860	360
	South Atlantic....	58	48	30,876	166,983	26,849	51,098	137,759	221,960	409,677	13,360	28,012	181,860	31,345
	Florida.....	21	18	3,907	18,091	3,400	6,604	14,721	21,797	38,331	986	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central	17	12	13,587	75,620	12,425	25,495	70,902	89,350	170,044	1,922	8,243	46,136	10,715
	West South Central	51	36	9,924	51,249	8,153	15,209	38,544	74,767	122,141	2,712	11,611	60,535	11,242
	Louisiana.....	27	19	5,835	29,219	4,891	9,043	22,703	41,225	66,058	1,280	7,974	41,629	6,384
	Pacific.....	52	33	13,351	78,500	11,644	21,603	64,719	106,272	187,249	3,362	16,439	110,756	24,513
	California.....	30	21	8,254	48,257	7,223	13,201	39,664	63,703	106,456	2,354	11,077	75,734	17,042
3732	Boat building and repairing, total...	1,651	277	25,295	103,603	21,156	40,346	81,356	157,309	329,009	15,298	16,900	84,507	18,850
	New England.....	202	26	1,890	7,267	1,636	3,141	5,790	10,844	19,267	577	2,316	9,591	2,126
	Maine.....	62	7	557	1,688	503	971	1,451	2,276	4,144	( <sup>2</sup> )	683	2,406	752
	Massachusetts...	77	10	683	2,856	586	1,162	2,272	4,276	7,640	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Connecticut....	34	3	294	1,385	242	462	1,009	1,832	3,321	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	217	42	3,490	14,871	2,948	5,750	11,915	17,395	45,595	1,489	2,658	13,489	4,464
	New York.....	108	20	1,668	7,130	1,408	2,738	5,727	5,718	21,055	( <sup>2</sup> )	1,479	7,527	2,207
	New Jersey.....	85	16	1,108	4,725	969	1,869	3,916	6,852	14,246	634	915	4,622	2,243
	Pennsylvania....	24	6	714	3,016	571	1,143	2,272	4,825	10,294	( <sup>2</sup> )	263	1,339	14
	North Central....	257	61	6,532	27,036	5,359	10,713	21,106	41,631	94,004	3,069	4,209	22,566	4,057
	Ohio.....	26	8	825	3,950	746	1,674	3,433	5,933	12,019	1,334	503	2,409	643
	Michigan.....	72	17	2,012	8,868	1,696	3,183	7,057	11,781	29,263	( <sup>2</sup> )	2,216	10,668	2,076
	Wisconsin.....	40	10	847	3,185	739	1,380	2,512	5,380	10,363	( <sup>2</sup> )	450	1,841	573
	Minnesota.....	32	6	1,043	4,216	751	1,613	2,896	8,126	15,907	( <sup>2</sup> )	337	1,965	245
	South Atlantic....	380	62	5,495	20,860	4,611	8,498	15,951	31,660	62,351	3,390	3,128	13,579	3,167
	Florida.....	188	31	2,442	9,639	1,917	3,570	6,716	12,163	24,820	2,361	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	East South Central	70	9	632	2,297	576	1,061	1,961	4,679	9,813	( <sup>2</sup> )	364	2,050	354
	Mississippi.....	13	2	110	261	104	152	237	458	1,117	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West South Central	203	37	3,185	11,333	2,542	4,808	8,381	17,009	40,596	1,741	1,981	10,283	2,641
	Louisiana.....	69	9	630	2,427	528	1,017	2,008	3,606	7,350	( <sup>2</sup> )	578	2,502	2,367
	Mountain.....	19	...	103	404	91	177	338	777	1,745	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pacific.....	303	40	3,968	19,535	3,393	6,198	15,914	33,314	55,638	4,533	...	...	...
	California.....	174	25	2,736	13,961	2,337	4,431	11,374	24,925	40,736	3,663	1,445	9,054	1,247

See footnotes at end of table



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expend- itures, new (\$1,000)	All em- ployees, number	Value added by manufac- ture, unadjusted (\$1,000)	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3741	Locomotives and parts, total.....	25	13	15,282	90,097	10,742	21,092	58,332	152,086	407,540	5,275	20,891	188,322	30,419
	Northeast and North Central....	22	13	15,269	90,019	10,731	21,072	58,284	151,756	406,660	5,248	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South and West....	3	...	13	78	11	20	48	330	880	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3742	Railroad and street cars, total.	67	44	24,309	132,302	17,892	32,565	91,089	167,576	562,190	8,635	30,683	215,224	60,851
	Northeast and North Central....	58	39	21,228	116,394	15,572	28,119	79,454	154,852	207,745	3,424	14,538	94,537	(D)
	Pennsylvania....	13	7	8,898	46,148	6,311	10,570	31,406	64,904	173,304	3,208	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Ohio.....	9	8	2,530	14,862	1,945	3,609	10,918	23,561	68,373	629	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Indiana.....	4	4	3,165	18,014	2,499	4,614	13,584	12,380	86,721	723	5,299	36,340	7,215
	South and West....	9	5	3,081	15,908	2,320	4,446	11,635	12,724	84,525	1,763	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3751	Motorcycles, bicycles, parts, total.....	51	29	7,578	33,020	6,179	12,213	24,115	52,125	121,527	2,549	7,061	53,830	15,615
	New England.....	3	3	586	2,428	486	851	1,840	3,520	8,129	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	12	7	875	3,410	760	1,545	2,692	5,577	13,370	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	North Central....	20	11	3,650	17,911	2,871	5,695	12,962	27,205	60,935	999	5,039	31,894	10,856
	Ohio.....	6	5	592	2,432	503	975	1,928	4,906	12,001	( <sup>2</sup> )	1,922	11,628	4,378
	South and West....	16	8	2,467	9,271	2,062	4,122	6,621	15,823	39,093	1,129	384	1,954	1,012
3791	Trailer coaches, total.....	386	209	18,717	77,129	16,004	30,613	58,969	127,683	461,053	6,939	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New England.....	3	...	5	8	5	8	8	14	42	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic...	17	6	348	1,157	310	582	932	2,322	7,168	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pennsylvania.....	13	6	334	1,113	298	561	892	2,262	6,994	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central	142	89	8,620	38,182	7,338	14,146	28,684	64,847	243,127	3,124	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Ohio.....	13	5	371	1,478	300	595	1,108	2,762	7,649	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Indiana.....	58	44	3,444	15,314	2,972	5,675	11,799	27,326	106,245	1,197	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Illinois.....	12	7	293	1,226	225	443	903	1,830	6,491	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	37	16	1,319	5,363	1,189	2,352	4,351	12,065	35,023	1,026	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Missouri.....	9	3	185	679	159	290	509	929	3,774	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South.....	75	41	4,155	14,596	3,435	6,511	10,826	21,052	83,988	839	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Florida.....	14	5	345	1,192	296	559	932	2,242	6,616	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Texas.....	29	18	1,712	5,828	1,498	2,872	4,686	7,765	37,565	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Mountain.....	17	9	603	2,012	502	814	1,580	3,177	9,645	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Idaho.....	6	4	166	386	140	207	344	608	1,489	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pacific.....	95	48	3,667	15,811	3,225	6,200	12,588	24,206	82,060	1,439	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
3799	Transportation equipment, nec, total.....	256	69	4,761	20,448	3,795	7,360	14,173	38,215	92,811	2,430	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New England.....	5	2	110	542	81	167	320	3,149	5,347	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic...	25	6	510	2,226	422	885	1,707	4,003	10,499	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Pennsylvania....	17	5	450	1,949	369	778	1,471	3,435	9,257	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central	64	21	1,466	6,863	1,143	2,162	4,457	11,868	30,553	728	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Indiana.....	16	7	490	2,249	384	721	1,411	3,737	11,161	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Illinois.....	13	4	292	1,370	221	416	886	2,148	5,986	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Michigan.....	12	4	241	1,052	204	377	743	1,811	4,339	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	49	15	857	3,583	709	1,580	2,681	6,364	14,385	647	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South.....	64	10	890	2,755	710	1,183	1,869	5,540	13,966	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	49	15	928	4,479	730	1,383	3,139	7,291	18,061	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3731, Shipbuilding and Repairing: New England—Maine, 9 (3,179); Massachusetts, 15 (8,911); Connecticut, 7 (9,198); North Central—Indiana, 2 (500-999); Illinois, 2 (250-499); Minnesota, 1 (1-19); Iowa, 1 (20-99); Missouri, 4 (500-999); South Atlantic—Delaware, 3 (250-499); Maryland, 11 (10,347); Virginia, 14 (14,528); West Virginia, 1 (250-499); North Carolina, 5 (250-499); South Carolina, 1 (250-499); Georgia, 2 (500-999); East South Central—Kentucky, 1 (250-499); Tennessee, 1 (500-999); Alabama, 8 (2,500-4,999); Mississippi, 7 (9,058); West South Central—Oklahoma, 1 (1-19); Texas, 23 (2,500-4,999); Pacific—Washington, 14 (3,498); Oregon, 8 (1,599).

SIC 3732, Boat Building: New England—New Hampshire, 7 (20-99); Vermont, 3 (20-99); Rhode Island, 19 (250-499); North Central—Indiana, 30 (1,000-2,499); Illinois, 27 (100-249); Iowa, 10 (100-249); Missouri, 12 (250-499); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 6 (100-249); South Atlantic—Delaware, 3 (20-99); Maryland, 78 (1,796); District of Columbia, 1 (1-19); Virginia, 43 (500-999); West Virginia, 1 (1-19); North Carolina, 37 (250-499); South Carolina, 9 (100-249); Georgia, 20 (100-249); East South Central—Kentucky, 6 (20-99); Tennessee, 27 (250-499); Alabama, 24 (100-249); West South Central—Arkansas, 14 (250-499); Oklahoma, 10 (20-99); Texas, 110 (1,000-2,499); Mountain—Montana, 4 (20-99); Idaho, 4 (1-19); Wyoming, 1 (1-19); Colorado, 1 (1-19); Arizona, 6 (20-99); Utah, 3 (1-19); Pacific—Washington, 100 (1,074); Oregon, 29 (100-249).

SIC 3741, Locomotives and Parts: Northeast and North Central—Massachusetts, 2 (250-499); New York, 3 (3,137); New Jersey, 1 (1-19); Pennsylvania, 4 (4,323); Ohio, 1 (250-499); Illinois, 5 (6,928); Michigan, 1 (1-19); Wisconsin, 2 (250-499); Minnesota, 1 (20-99); Missouri, 1 (1-19); Nebraska, 1 (20-99); South and West—North Carolina, 1 (1-19); Georgia, 1 (1-19); Washington, 1 (1-19).

Footnotes continued on next page.



Footnotes to Table 2—37C

SIC 3742, Railroad and Street Cars: Northeast and North Central—Massachusetts, 2 (500-999); New York, 3 (100-249); New Jersey, 4 (500-999); Illinois, 15 (2,744); Michigan, 1 (500-999); Wisconsin, 1 (1-19); Minnesota, 1 (100-249); Iowa, 1 (1-19); Missouri, 4 (1,322); South and West—West Virginia, 1 (500-999); North Carolina, 1 (1-19); Kentucky, 1 (20-99); Alabama, 2 (1,000-2,499); Mississippi, 1 (20-99); Washington, 1 (1,000-2,499); California, 2 (1-19).

SIC 3751, Motorcycles, Bicycles and Parts: New England—Massachusetts, 2 (500-999); Connecticut, 1 (20-99); Middle Atlantic—New York, 10 (500-999); New Jersey, 1 (1-19); Pennsylvania, 1 (1-19); North Central—Indiana, 2 (100-249); Illinois, 5 (500-999); Michigan, 3 (20-99); Wisconsin, 3 (1,195); Nebraska, 1 (500-999); South and West—Florida, 1 (1-19); Kentucky, 2 (250-499); Tennessee, 1 (1,000-2,499); Louisiana, 1 (20-99); Oklahoma, 1 (1-19); Texas, 1 (1-19); Arizona, 1 (1-19); California, 8 (250-499).

SIC 3791, Trailer Coaches: New England—Massachusetts, 2 (1-19); Connecticut, 1 (1-19); Middle Atlantic—New York, 2 (1-19); New Jersey, 2 (1-19); East North Central—Michigan, 47 (3,848); Wisconsin, 12 (500-999); West North Central—Minnesota, 4 (20-99); Iowa, 8 (100-249); South Dakota, 3 (100-249); Nebraska, 7 (250-499); Kansas, 6 (250-499); South—Maryland, 4 (100-249); North Carolina, 1 (1-19); South Carolina, 2 (1-19); Georgia, 5 (250-499); Kentucky, 2 (20-99); Tennessee, 2 (20-99); Alabama, 1 (1-19); Mississippi, 1 (250-499); Arkansas, 6 (250-499); Louisiana, 1 (1-19); Oklahoma, 7 (500-999); Mountain—Colorado, 7 (250-499); Arizona, 1 (1-19); Utah, 3 (100-249); Pacific—Washington, 4 (1-19); Oregon, 6 (100-249); California, 85 (3,443).

SIC 3799, Transportation Equipment, NEC: New England—New Hampshire, 1 (1-19); Massachusetts, 3 (20-99); Connecticut, 1 (20-99); Middle Atlantic—New York, 5 (20-99); New Jersey, 3 (20-99); East North Central—Ohio, 14 (250-499); Wisconsin, 9 (20-99); West North Central—Minnesota, 9 (100-249); Iowa, 16 (250-499); Missouri, 11 (20-99); South Dakota, 1 (1-19); Nebraska, 4 (20-99); Kansas, 8 (100-249); South—Maryland, 3 (1-19); Virginia, 1 (1-19); North Carolina, 2 (20-99); South Carolina, 1 (1-19); Georgia, 4 (20-99); Florida, 12 (100-249); Kentucky, 1 (1-19); Tennessee, 4 (20-99); Alabama, 2 (1-19); Mississippi, 1 (20-99); Arkansas, 5 (20-99); Louisiana, 1 (1-19); Oklahoma, 3 (20-99); Texas, 21 (250-499); West—Wyoming, 1 (1-19); Colorado, 1 (1-19); Arizona, 2 (1-19); Washington, 5 (20-99); Oregon, 4 (100-249); California, 36 (500-999).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State or region was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

<sup>4</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3791	Trailer coaches, total <sup>2</sup> .....	505	236	20,734	85,585	17,635	33,562	64,838	<sup>3</sup> 146,568	506,600	8,011	11,131	68,784	9,562
	Northeast.....	36	8	539	1,924	468	891	1,496	5,790	13,649	( <sup>3</sup> )	210	1,747	28
	Pennsylvania.....	20	7	424	1,440	377	712	1,177	2,971	9,037	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central	164	98	9,284	41,530	334,484	15,174	30,933	<sup>3</sup> 69,711	259,951	3,532	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Ohio.....	17	7	500	2,277	408	810	1,638	4,191	11,366	( <sup>3</sup> )	371	2,075	380
	Indiana.....	64	49	3,813	17,200	3,264	6,231	12,992	30,595	115,863	1,405	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Illinois.....	16	7	330	1,404	258	511	1,059	2,135	7,541	( <sup>3</sup> )	532	3,860	1,488
	West North Central	56	21	1,604	6,529	1,425	2,836	5,247	14,351	39,859	1,158	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Iowa.....	11	3	210	813	184	352	701	1,863	3,586	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Missouri.....	19	4	273	977	234	426	758	1,528	5,170	( <sup>3</sup> )	207	1,140	146
	Nebraska.....	9	5	416	1,549	364	746	1,189	5,027	11,429	758	159	876	(D)
	South Atlantic....	40	13	1,037	3,629	880	1,586	2,791	7,141	20,582	373	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Florida.....	23	6	505	1,686	417	720	1,239	3,637	10,419	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East South Central	9	3	401	1,256	331	614	890	1,803	7,236	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West South Central	69	30	3,322	11,708	2,675	4,995	8,383	15,982	72,073	773	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Texas.....	48	22	2,072	7,061	1,755	3,260	5,394	9,714	42,876	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Mountain.....	18	9	604	2,016	503	816	1,584	3,186	9,672	( <sup>3</sup> )	64	537	(D)
	Pacific.....	113	53	3,943	16,993	3,470	6,650	13,513	26,644	89,105	1,529	1,851	11,787	(D)
	California.....	99	50	3,691	16,167	3,242	6,219	12,834	25,428	84,775	1,428	1,828	11,637	1,691
3799	Transportation equipment, nec, total <sup>2</sup> ..	133	40	2,530	10,802	1,997	4,072	7,505	17,672	44,066	1,305	1,636	<sup>3</sup> 10,042	4,584
	Northeast.....	14	6	434	2,009	350	751	1,471	3,698	9,407	( <sup>3</sup> )	407	2,912	(D)
	Pennsylvania.....	10	4	360	1,622	290	627	1,186	2,726	7,214	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	East North Central	40	11	663	2,709	494	916	1,694	4,995	11,497	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Indiana.....	10	2	121	363	92	165	218	468	1,543	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Illinois.....	8	3	122	415	88	138	240	887	2,818	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Michigan.....	7	2	147	677	120	231	455	1,184	2,320	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West North Central	30	10	572	2,417	473	1,096	1,785	3,097	9,549	515	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South.....	20	4	282	750	256	495	622	1,618	3,554	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	25	9	579	2,917	424	814	1,933	233	10,059	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	California.....	22	7	494	2,411	361	690	1,647	3,700	8,705	( <sup>3</sup> )	305	2,208	149

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies. <sup>R</sup> Revised.<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3791, Trailer Coaches: Northeast—New Hampshire, 1 (1-19); Massachusetts, 4 (1-19); Connecticut, 2 (20-99); Middle Atlantic—New York, 5 (1-19); New Jersey, 4 (1-19); East North Central—Michigan, 52 (3,942); Wisconsin, 15 (500-999); West North Central—Minnesota, 6 (20-99); South Dakota, 3 (100-249); Kansas, 8 (250-499); South Atlantic—Maryland, 5 (100-249); Virginia, 1 (1-19); North Carolina, 2 (20-99); South Carolina, 3 (1-19); Georgia, 6 (250-499); East South Central—Kentucky, 2 (20-99); Tennessee, 3 (20-99); Alabama, 3 (1-19); Mississippi, 1 (250-499); West South Central—Arkansas, 8 (250-499); Louisiana, 1 (1-19); Oklahoma, 12 (500-999); Mountain—Idaho, 6 (100-249); Wyoming, 1 (1-19); Colorado, 7 (250-499); Arizona, 1 (1-19); Utah, 3 (100-249); Pacific—Washington, 8 (20-99); Oregon, 6 (100-249).

SIC 3799, Transportation Equipment, NEC: Northeast—Massachusetts, 1 (20-99); New York, 2 (20-99); New Jersey, 1 (20-99); East North Central—Ohio, 9 (100-249); Wisconsin, 6 (20-99); West North Central—Minnesota, 7 (20-99); Iowa, 13 (250-499); Missouri, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 2 (1-19); Kansas, 6 (100-249); South—Maryland, 2 (1-19); North Carolina, 1 (1-19); Georgia, 3 (20-99); Florida, 2 (20-99); Kentucky, 1 (1-19); Tennessee, 3 (20-99); Mississippi, 1 (20-99); Arkansas, 3 (20-99); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 2 (1-19); West—Colorado, 1 (1-19); Arizona, 2 (1-19); Washington, 1 (1-19); Oregon, 3 (20-99).

<sup>2</sup> See footnote 9 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.<sup>3</sup> Less than \$500 thousand.<sup>4</sup> This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—Detailed Statistics for the United States: 1958

Item	Ship building and repairing (SIC 3731)	Boat building and repairing (SIC 3732)	Locomotives and parts (SIC 3741)	Railroad and street cars (SIC 3742)	Motorcycles, bicycles and parts (SIC 3751)	Trailer coaches (SIC 3791)	Transportation equipment, nec (SIC 3799)
Primary product specialization ratio <sup>1</sup> .....	93	93	85	87	84	99	86
Coverage ratio <sup>2</sup> .....	99	95	90	90	93	99	73
Number of establishments, total.....	319	1,651	25	67	51	386	256
With 1-19 employees.....	97	1,374	12	23	22	177	187
With 20-99 employees.....	100	230	4	13	15	149	60
With 100 employees or more.....	122	47	9	31	14	60	9
Proprietors and working partners.....Number..	57	1,287	9	10	12	155	166
All employees:							
Number (average for the year).....	119,147	25,295	15,282	24,309	7,578	18,717	4,761
Payroll.....\$1,000..	669,826	103,603	90,097	132,302	33,020	77,129	20,448
Production workers:							
Number (average for the year).....	101,153	20,986	10,742	17,892	6,179	16,004	3,795
March.....	103,442	21,901	12,186	23,754	5,366	14,305	3,740
May.....	100,245	24,067	10,770	18,287	5,909	15,437	4,001
August.....	100,183	18,974	10,088	15,449	7,061	16,649	3,797
November.....	101,066	20,209	9,949	14,089	6,415	17,694	3,740
Man-hours.....1,000..	197,707	40,346	21,092	32,565	12,213	30,613	7,360
January-March.....do....	48,976	10,165	6,374	11,521	2,316	6,299	1,720
April-June.....do....	50,281	11,435	5,544	8,366	3,018	7,453	1,856
July-September.....do....	49,052	8,676	4,395	6,263	3,458	7,929	1,842
October-December.....do....	49,383	9,191	4,772	6,408	3,410	8,544	1,851
Wages.....\$1,000..	537,814	81,356	58,332	91,089	24,115	58,969	14,173
Cost of materials, etc., total.....do....	711,937	178,803	224,754	310,796	69,106	332,071	<sup>r</sup> 55,095
Materials, parts, containers, and supplies consumed.....do....	669,205	161,665	205,480	301,258	64,426	318,095	50,768
Cost of resales.....do....	7,999	12,813	15,922	2,857	2,463	11,594	<sup>r</sup> 2,221
Fuels consumed.....do....	6,967	936	1,764	3,573	569	697	283
Electricity purchased.....do....	9,875	1,597	1,222	2,726	568	995	408
Contract work.....do....	<sup>r</sup> 17,891	<sup>r</sup> 1,792	366	382	1,080	<sup>r</sup> 690	1,415
Value of shipments (including resales), total <sup>3</sup> .....do....	1,625,624	329,009	407,540	562,190	121,527	461,053	92,811
Value of resales.....do....	9,025	16,208	20,111	4,259	3,229	12,934	2,788
Value added by manufacture, adjusted...do....	913,687	157,309	152,086	167,576	52,125	127,683	<sup>r</sup> 38,215
Manufacturers' inventories:							
Beginning of year, total.....do....	394,125	<sup>r</sup> 68,464	100,796	<sup>r</sup> 204,268	21,718	47,518	<sup>r</sup> 14,012
Finished products.....do....	5,617	21,916	17,552	10,390	4,847	16,571	4,904
Work-in-process.....do....	314,376	19,571	75,153	131,241	9,497	5,254	3,383
Materials, supplies, fuel, etc.....do....	74,132	26,977	8,091	62,637	7,374	25,693	5,725
End of year, total.....do....	<sup>r</sup> 408,006	<sup>r</sup> 75,040	68,559	95,644	21,981	47,410	14,882
Finished products.....do....	6,748	22,801	10,484	8,179	4,282	14,181	5,020
Work-in-process.....do....	341,740	25,789	51,521	49,634	9,766	6,345	3,758
Materials, supplies, fuel, etc.....do....	59,518	26,450	6,554	37,831	7,933	26,884	6,104
Expenditures for plant and equipment, total.....do....	40,546	14,516	5,498	9,133	2,624	7,394	2,751
New, total.....do....	38,737	15,298	5,275	8,635	2,549	6,939	2,430
New structures and additions to plant.....do....	18,762	8,690	800	1,785	374	4,121	1,074
New machinery and equipment.....do....	19,975	6,608	4,475	6,850	2,175	2,818	1,356
Used plant and equipment.....do....	1,809	457	223	498	75	455	321

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>For Industry 3731, represents value of work done. See text for explanation.



Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3731	Ship building and repairing:											
	Number of establishments.....	319	14	30	53	64	36	52	27	20	12	11
	All employees:											
	Number.....	119,147	31	212	769	2,070	2,496	7,890	8,974	14,855	16,242	65,608
	Payroll.....\$1,000..	669,826	140	1,078	3,732	10,374	13,356	39,633	46,127	81,087	87,782	386,517
	Value added, adjusted..do....	913,687	224	1,644	5,903	16,674	19,100	58,331	64,844	111,345	123,403	512,219
	Value of shipments.....do....	1,625,624	410	2,894	9,686	25,367	28,226	101,989	130,657	182,084	185,611	958,700
	Capital expend., new...do....	38,737	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	560	( <sup>1</sup> )	1,336	1,037	5,352	4,429	25,344
3732	Boat building and repairing:											
	Number of establishments.....	1,651	913	280	181	171	59	35	10	2	...	...
	All employees:											
	Number.....	25,110	1,685	1,831	2,468	5,165	4,182	5,257	4,522	(D)	...	...
	Payroll.....\$1,000..	103,603	5,883	6,559	9,824	20,937	17,107	23,586	19,707	(D)	...	...
	Value added, adjusted..do....	157,309	10,349	10,535	10,508	33,771	25,523	39,074	27,549	(D)	...	...
	Value of shipments.....do....	329,009	22,830	20,212	29,074	62,878	56,339	78,179	59,497	(D)	...	...
	Capital expend., new...do....	15,298	2,083	1,749	1,066	5,114	1,592	1,489	2,205	(D)	...	...
3741	Locomotives and parts:											
	Number of establishments.....	25	8	2	2	3	1	2	3	...	1	3
	All employees:											
	Number.....	15,282	64	(D)	(D)	457	(D)	(D)	1,027	...	13,734	(D)
	Payroll.....\$1,000..	90,097	305	(D)	(D)	2,097	(D)	(D)	5,256	...	82,439	(D)
	Value added, adjusted..do....	152,086	888	(D)	(D)	4,146	(D)	(D)	8,630	...	138,422	(D)
	Value of shipments.....do....	407,540	2,164	(D)	(D)	10,067	(D)	(D)	17,617	...	377,692	(D)
	Capital expend., new...do....	5,275	( <sup>1</sup> )	(D)	...	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	...	4,857	(D)
3742	Railroad and street cars:											
	Number of establishments.....	67	12	6	5	4	9	8	8	6	8	1
	All employees:											
	Number.....	24,309	28	43	77	135	676	1,154	3,094	4,080	15,022	(D)
	Payroll.....\$1,000..	132,302	95	208	335	740	3,112	6,149	16,993	23,143	81,527	(D)
	Value added, adjusted..do....	167,576	305	722	683	1,517	5,699	10,510	18,720	32,355	97,065	(D)
	Value of shipments.....do....	562,190	506	1,126	1,426	4,185	15,812	24,858	64,306	122,123	327,848	(D)
	Capital expend., new...do....	8,635	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,064	1,358	5,191	(D)
3751	Motorcycles, bicycles and parts:											
	Number of establishments.....	51	15	4	3	10	5	6	4	2	2	...
	All employees:											
	Number.....	7,578	35	28	43	333	350	960	1,506	4,323	(D)	...
	Payroll.....\$1,000..	33,020	124	98	103	1,228	1,241	3,860	5,512	20,854	(D)	...
	Value added, adjusted..do....	52,125	233	168	78	1,952	2,190	7,098	8,708	31,698	(D)	...
	Value of shipments.....do....	121,527	479	643	376	4,087	4,822	21,066	19,272	70,782	(D)	...
	Capital expend., new...do....	2,549	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	(D)	( <sup>1</sup> )	( <sup>1</sup> )	1,685	(D)	...
3791	Trailer coaches:											
	Number of establishments.....	386	101	35	41	85	64	52	7	1	...	...
	All employees:											
	Number.....	18,717	188	236	579	2,897	4,350	7,653	2,814	(D)	...	...
	Payroll.....\$1,000..	77,129	713	810	1,997	10,655	16,441	33,198	13,315	(D)	...	...
	Value added, adjusted..do....	127,683	823	1,722	3,172	17,464	24,198	59,321	20,983	(D)	...	...
	Value of shipments.....do....	461,053	3,880	4,336	11,727	57,239	86,899	213,895	83,077	(D)	...	...
	Capital expend., new...do....	6,939	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,422	1,749	2,038	1,969	(D)	...	...
3799	Transportation equipment, nec:											
	Number of establishments.....	256	105	36	46	40	20	9	...	...	...	...
	All employees:											
	Number.....	4,761	213	227	650	1,193	1,345	1,133	...	...	...	...
	Payroll.....\$1,000..	20,448	722	750	2,543	4,963	5,983	5,487	...	...	...	...
	Value added, adjusted..do....	38,215	1,421	1,398	4,872	9,021	12,362	9,141	...	...	...	...
	Value of shipments.....do....	92,811	3,694	3,613	11,150	23,646	29,572	21,136	...	...	...	...
	Capital expend., new...do....	2,430	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	603	596	( <sup>1</sup> )	...	...	...	...

<sup>r</sup>Revised.<sup>1</sup>Less than \$500 thousand.

**Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954**

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3731	Ship building and repairing.....1958..	1,625,624	1,452,734	110,688	62,202	93	1,467,381	1,452,734	14,647	99
	1954..	1,084,242	959,491	86,214	38,537	92	972,154	959,491	12,663	99
3732	Boat building and repairing.....1958..	329,009	284,485	20,332	24,192	93	300,143	284,485	15,658	95
	1954..	163,626	139,683	10,585	13,358	93	163,605	139,683	23,922	85
3741	Locomotives and parts.....1958..	407,540	321,162	56,016	30,362	85	355,168	321,162	34,006	90
	1954..	444,418	346,439	74,662	23,317	82	365,169	346,439	18,730	95
3742	Railroad and street cars.....1958..	562,190	474,469	68,928	18,793	87	528,598	474,469	54,129	90
	1954..	499,294	401,286	84,051	13,957	83	468,233	401,286	66,947	86
3751	Motorcycles, bicycles, and parts.....1958..	121,527	98,813	18,631	4,083	84	105,821	98,813	7,008	93
	1954..	100,477	81,085	13,468	5,924	86	88,340	81,085	7,255	92
3791	Trailer coaches.....1958..	461,053	441,635	4,108	15,310	99	444,782	441,635	3,147	99
3799	Transportation equipment, nec...1958..	92,811	73,005	11,971	7,835	86	99,954	73,005	26,949	73

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Ship building and repairing industry	Ship building and repairing (SIC 3731)	Other industries	All industries
	Total value of work done, shipments, and receipts of the industry.....	1,625,624	xxx	xxx
	Primary products.....	1,452,734	14,647	1,467,381
37311	Nonpropelled ships, new construction.....	90,085	<sup>1</sup> 5,181	95,266
37312	Self-propelled ships, United States military, new construction.....	466,181	3,784	469,965
37313	Self-propelled ships, nonmilitary, new construction.....	436,834	<sup>2</sup> 4,586	441,220
37314	Ship repair, United States military.....	123,115	723	123,838
37316	Repair of nonmilitary ships.....	326,778	( <sup>3</sup> )	326,778
37310	Ship building and repairing, nsk.....	9,741	573	10,314
	Secondary products.....	110,688	xxx	xxx
34411	Fabricated structural iron and steel for buildings.....	3,323	xxx	xxx
34412	Fabricated structural iron and steel for bridges.....	5,142	xxx	xxx
34413	Other fabricated structural iron and steel.....	14,130	xxx	xxx
3732-	Boat building and repairing.....	12,635	xxx	xxx
	All other secondary products.....	<sup>4</sup> 75,458	xxx	xxx
	Miscellaneous receipts.....	62,202	xxx	xxx
	Contract work.....	9,131	xxx	xxx
	Resales.....	9,025	xxx	xxx
	Other miscellaneous receipts.....	44,046	xxx	xxx
Prod. class code	Boat building and repairing industry	Boat building and repairing (SIC 3732)	Other industries	All industries
	Total shipments and receipts of the industry.....	329,009	xxx	xxx
	Primary products.....	284,485	15,658	300,143
37321	Inboard motor boats.....	70,619	<sup>5</sup> 5,476	76,095
37322	Outboard motor boats.....	107,462	898	108,360
37323	All other boats.....	14,440	1,057	15,497
37324	Boat repair.....	47,567	<sup>6</sup> 7,519	55,086
37320	Boat building and repairing, nsk.....	44,397	708	45,105
	Secondary products.....	20,332	xxx	xxx
3731-	Ship building and repairing.....	9,920	xxx	xxx
	All other secondary products.....	<sup>7</sup> 10,412	xxx	xxx
	Miscellaneous receipts.....	24,192	xxx	xxx
	Contract work.....	1,837	xxx	xxx
	Resales.....	16,208	xxx	xxx
	Other miscellaneous receipts.....	6,147	xxx	xxx
Prod. class code	Locomotives and parts industry	Locomotives and parts (SIC 3741)	Other industries	All industries
	Total shipments and receipts of the industry.....	407,540	xxx	xxx
	Primary products.....	321,162	34,006	355,168
37411	Locomotives, railroad service and switching type.....	204,912	..	204,912
37412	Other new locomotives.....	14,796	( <sup>8</sup> )	14,796
37413	Parts for locomotives and rebuilt locomotives.....	101,454	<sup>9</sup> 34,006	135,460
	Secondary products.....	56,016	xxx	xxx
35690	General industrial machinery.....	<sup>10</sup> 2,832	xxx	xxx
	All other secondary products.....	53,184	xxx	xxx
	Miscellaneous receipts.....	30,362	xxx	xxx
	Resales.....	20,111	xxx	xxx
	Other miscellaneous receipts.....	10,251	xxx	xxx
Prod. class code	Railroad and street cars industry	Railroad and street cars (SIC 3742)	Other industries	All industries
	Total shipments and receipts of the industry.....	562,190	xxx	xxx
	Primary products.....	474,469	54,129	528,598
37421	Passenger train cars, new.....	6,571	<sup>11</sup> 4,845	11,416
37422	Freight train cars, new.....	296,755	<sup>12</sup> 49,284	515,801
37423	Street cars, and parts and accessories for railroad cars.....	169,762		
37420	Railroad and street cars, nsk.....	1,381	...	1,381
	Secondary products.....	68,928	xxx	xxx
35321	Underground mining machinery and equipment.....	2,436	xxx	xxx
	All other secondary products.....	<sup>13</sup> 66,492	xxx	xxx
	Miscellaneous receipts.....	18,793	xxx	xxx
	Resales.....	4,259	xxx	xxx
	Contract work and other miscellaneous receipts.....	14,534	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.-Industry-Product Analysis--Shipments by Product Class and Industry,  
for the United States: 1958-Continued

Prod. class code	Motorcycles, bicycles, and parts industry	Motorcycles, bicycles, and parts (SIC 3751)	Other industries	All industries
	Total shipments and receipts of the industry.....	121,527	xxx	xxx
37510	Bicycles, motorcycles, motorbikes, scooters, and parts.....	98,813	<sup>14</sup> 7,008	105,821
	Secondary products.....	<sup>15</sup> 18,631	xxx	xxx
	Miscellaneous receipts.....	4,083	xxx	xxx
	Resales.....	3,229	xxx	xxx
	Other miscellaneous receipts.....	854	xxx	xxx
Prod. class code	Trailer coaches, housing type industry	Trailer coaches, housing type (SIC 3791)	Other industries	All industries
	Total shipments and receipts of the industry.....	461,053	xxx	xxx
37910	Trailer coaches, housing types.....	441,635	<sup>16</sup> 3,147	444,782
	Secondary products.....	174,108	xxx	xxx
	Miscellaneous receipts.....	15,310	xxx	xxx
	Resales.....	12,934	xxx	xxx
	Other miscellaneous receipts.....	2,376	xxx	xxx
Prod. class code	Transportation equipment, nec industry	Transportation equipment, nec (SIC 3799)	Other industries	All industries
	Total shipments and receipts of the industry.....	92,811	xxx	xxx
	Primary products.....	73,005	26,949	99,954
37991	Automobile trailers, excluding housing type coaches.....	21,063	1,590	22,653
37992	Other transportation equipment.....	51,942	<sup>18</sup> 25,359	77,301
	Secondary products.....	<sup>19</sup> 11,971	xxx	xxx
	Miscellaneous receipts.....	7,835	xxx	xxx
	Contract work.....	998	xxx	xxx
	Resales.....	2,788	xxx	xxx
	Other miscellaneous receipts.....	4,049	xxx	xxx

<sup>1</sup>Includes shipments of over \$2 million by Industry 3536. However, the exact figure is withheld to avoid disclosing individual company figures.

<sup>2</sup>Includes shipments of over \$2 million by Industry 3732. However, the exact figure is withheld to avoid disclosing individual company figures.

<sup>3</sup>Value of repair of nonmilitary ships performed by establishments classified in other industries (considerably less than 1 percent) is included with value of repairs by the Ship Building and Repairing Industry to avoid disclosing individual company figures.

<sup>4</sup>Includes shipments of over \$2 million by the following product classes; however, the exact values are withheld to avoid disclosing individual company figures: 33620, 34431, 34432, 35112, 35314, 35351, 35595, and 35690.

<sup>5</sup>Of this figure, \$4,786 thousand was shipped by Industry 3731.

<sup>6</sup>Includes shipments of over \$2 million by Industry 3731. However, the exact value is withheld to avoid disclosing operations of individual companies.

<sup>7</sup>Includes shipments of over \$2 million for product class 34413. However, the exact value is withheld to avoid disclosing individual company figures.

<sup>8</sup>Value of other new locomotives shipped by establishments classified in other industries is included with shipments by the Locomotives and Parts Industry to avoid disclosures of operations of individual companies.

<sup>9</sup>Includes shipments by the following industries each of which reported a total of \$2 million or more, but exact figures are withheld to avoid disclosing operations of individual companies: 3323, 3511, and 3722.

<sup>10</sup>Includes the following product classes which total \$2 million or more each but are withheld to avoid disclosing individual company figures: 351921, 35614, 36213, and 36214.

<sup>11</sup>Includes shipments of over \$2 million by Industry 3717, but the exact figure is withheld to avoid disclosing operations of individual companies.

<sup>12</sup>Includes shipments by the following industries each of which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 3323, 3443, 3715, 3717, and 3729.

<sup>13</sup>Includes the following product classes which total \$2 million or more each but are withheld to avoid disclosing individual company figures; 33230, 34432, 34436, 35319, 35321, 37413, and 37510.

<sup>14</sup>Includes shipments of over \$2 million by Industry 3742. However, the exact figure is withheld to avoid disclosing individual company figures.

<sup>15</sup>Includes shipments of the following product classes, each of which total \$2 million or more; however, the exact values are withheld to avoid disclosing individual company figures: 35227, 36341, and 39430.

<sup>16</sup>Includes shipments of over \$2 million by Industry 2433. However, the exact value is withheld to avoid disclosing individual company figures.

<sup>17</sup>Includes shipments of \$1,061 thousand of product class 37176.

<sup>18</sup>Includes \$18,215 thousand shipped by Industry 3522.

<sup>19</sup>Includes shipments of the following product classes: 35223, \$1,168 thousand; and 35228, \$863 thousand. The remainder can not be broken down further without disclosing the operations of individual companies.



Table 6A.--Value of Work Done and Quantity and Value of Shipments by all Producers  
in the United States. 1958 and 1954

Product code	Product	Value of work done <sup>1</sup> (\$1,000)			
		1958		1954	
3731---	Ship building and repairing, total <sup>2</sup> .....	1,467,381		970,279	
37311--	Nonpropelled ships (barges, etc.), new construction.....	95,266		69,138	
3731110	Nonpropelled ships, new construction, military, including hopper barges, tank barges, covered cargo barges, deck barges, dredges, car floats, etc.....	(3)		15,672	
	Nonpropelled ships, nonmilitary ships, new construction:				
3731121	Hopper barges.....	26,827		31,548	
3731131	Tank barges.....	12,670		4,251	
3731141	Covered cargo barges.....	12,901		9,473	
3731151	Deck barges.....	9,124		5,917	
3731161	Dredges.....	2,108			
3731171	Car floats.....	334		20,277	
3731181	Other nonmilitary nonpropelled vessels.....	31,302			
3731210	Self-propelled ships, new construction, military (including combat ships, troop transport vessels, fleet auxiliaries, service craft, etc.).....	469,965		296,263	
3731310	Self-propelled ships, nonmilitary (including passenger ships, passenger-cargo, dry cargo, tankers, towboats, tugboats, tender vessels, commercial sailing vessels, yachts, ferryboats, fireboats, etc.).....	441,220		227,424	
37314--	Ship repair, conversions and reconversions, military.....	123,838		133,315	
3731413	Conversions and reconversions.....	41,242			
3731419	All other repairs.....	82,596		133,315	
37316--	Ship repair, conversions, and reconversions, nonmilitary.....	326,778		239,884	
	Maritime Administration:				
3731613	Conversions and reconversions.....				
3731619	All other repairs.....	40,104		51,269	
	All other:				
3731653	Conversions and reconversions.....	61,543			
3731659	All other repairs.....	225,131		188,615	
3731000	Ship building and repairing, nsk.....	310,314		4,255	
Total shipments including interplant transfers					
		1958		1954	
		Quantity (no. of boats)	Value (\$1,000)	Quantity (no. of boats)	Value (\$1,000)
3732---	Boatbuilding and repairing.....	xxx	300,143	xxx	163,605
37321--	Inboard motorboats (all types).....	xxx	76,095	xxx	60,335
3732111	Boats of special Army, Navy, or Coast Guard design (new construction).....	xxx	3,582	xxx	13,579
	Motorboats, nonmilitary, new construction (other than specially designed types built for the Army, Navy, or Coast Guard, and excluding sailboats with auxiliary power, lifeboats, and prefabricated boat construction kits):				
3732121	Less than 16 feet in length.....	2,060	2,673	11,581	4,752
3732123	16 feet or over and less than 26 feet in length.....	9,386	29,378	7,421	16,040
3732125	26 feet or over and less than 40 feet in length.....	2,698	27,608	1,373	13,850
3732127	40 feet or over and less than 65 feet in length.....	317	11,653	266	9,870
3732129	65 feet or more in length.....	28	1,201	32	2,244
37322--	Outboard motorboats (all types, including prefabricated kits).....	xxx	108,360	xxx	15,942
	Motorboats (excluding sailboats with auxiliary power, lifeboats, and prefabricated boat construction kits):				
3732211	13 feet 6 inches and under in length.....	64,902	14,857	57,697	12,298
3732215	13 feet 7 inches to and including 15 feet 6 inches in length.....	140,384	52,772		
3732219	15 feet 7 inches and over in length.....	44,072	35,809		
3732251	Prefabricated boat construction kits.....	17,694	4,922	22,826	3,644
3732311	Other boats, including sailboats, rowboats, canoes, skiffs, dinghies, lifeboats, etc.....	26,071	15,497	76,414	20,370
37324--	Boat repair, military and nonmilitary.....	xxx	55,086	xxx	46,722
3732411	Receipts for repair work done in 1958 on Army, Navy, or Coast Guard boats.....	xxx	8,696	xxx	6,648
3732421	Receipts for repair work done in 1958 on all other boats.....	xxx	46,390	xxx	40,074
3732000	Boatbuilding and repairing, nsk.....	xxx	45,105	xxx	20,236

See footnotes at end of table.

Table 6A.--Value of Work Done and Quantity and Value of Shipments by all Producers  
in the United States. 1958 and 1954--Continued

Product code	Product	Total shipments including interplant transfers					
		1958			1954		
		Quantity (no. of units)	Weight (short tons)	Value (\$1,000)	Quantity (no. of units)	Weight (short tons)	Value (\$1,000)
3741---	Locomotives and parts, total <sup>4</sup> .....	xxx	xxx	355,168	xxx	xxx	365,169
37411--	Locomotives, new, railroad road service type and switching type...	xxx	xxx	204,912	xxx	xxx	237,788
3741115	Gas turbine electric.....	51,140	5116,660	5204,912	1,006 16	128,688 7,390	178,446 8,789
3741133	Diesel-electric.....						
3741151	Other railroad service type.....						
3741181	Switching type, Diesel-electric: Under 1,000 hp.....				92	7,984	8,091
3741185	1,000 hp. and over.....				311	38,074	42,462
3741191	Road switching type Diesel-electric.....				...	...	...
3741212	} Other new locomotives, industrial and mining type.....	363	9,150	14,796	566	(NA)	14,882
3741219							
37413--	Parts for locomotives, for sale separately and rebuilt locomotives.....	xxx	xxx	135,460	xxx	xxx	112,499
3741311	Parts for locomotives for sale separately (except wheels) (including tenders, locomotive air brakes, repair parts, locomotive stokers, lubrication systems, super heaters, etc.)..	xxx	xxx	135,460	xxx 80	xxx 10,399	107,812 4,687
3741351	Rebuilt locomotives.....						
3742---	Railroad and street cars <sup>6</sup> , total.....	xxx	xxx	528,598	xxx	xxx	468,233
37421--	Passenger train cars, new.....	xxx	xxx	11,416	xxx	xxx	96,180
3742111	Coach.....	33	2,038	7,061	116	8,600	20,113
3742113	Coach combination.....				45	3,340	11,542
3742121	Baggage, express, and nonpassenger combination.....				42	2,462	4,108
3742131	Sleeping and sleeping combination.....				253	17,328	43,443
3742141	Club, lounge, parlor, observation, and combination.....				63	4,319	9,162
3742151	Dining and dining combination.....	83	5,063	4,355	21	1,455	3,338
3742198	Other passenger train cars, including postal, postal-passenger combination, express refrigeration and milk, and self-propelled passenger car (such as combination passenger-baggage, etc., cars) including railmotor and multiple unit electric cars.....				36	1,857	4,474
37422--	Freight train cars, new.....	xxx	xxx	471,824	xxx	xxx	316,001
	Made in manufacturing plants.....	xxx	xxx	319,262	xxx	xxx	227,093
	Made in railroad car shops <sup>7</sup> .....	xxx	xxx	152,562	xxx	xxx	88,908
3742211	Box.....	(B)	(NA)	(B)	16,223	461,265	103,632
	Made in manufacturing plants.....				10,447	309,864	67,365
	Made in railroad car shops.....				5,776	151,401	36,268
3742215	Flat.....	1,918	48,067	22,757	2,076	55,196	15,878
	Made in manufacturing plants.....	1,288	29,528	18,295	425	7,569	2,673
	Made in railroad car shops.....	630	18,539	4,462	1,651	47,627	13,204
3742225	Gondola.....	10,809	311,659	107,803	4,505	117,531	30,655
	Made in manufacturing plants.....	7,552	220,995	73,024	2,999	71,584	20,507
	Made in railroad car shops.....	3,257	91,564	34,779	1,506	45,947	10,148
3742231	} Hopper (covered) and hopper (uncovered).....	15,646	410,051	143,991	5,539	158,795	44,361
3742233							
	Made in manufacturing plants.....	10,783	284,186	104,737	4,971	143,052	40,056
	Made in railroad car shops.....	4,863	125,865	39,254	568	15,743	4,305
3742241	Refrigerator:						
	Made in manufacturing plants.....	(B)	(NA)	(B)	3,817	113,535	38,855
	Made in railroad plants.....	(B)	(NA)	(B)	(B)	(NA)	(B)
3742235	} Tank, caboose, and other freight train cars, industrial railcars not suitable for use on common carriers, and rebuilt passenger and freight train cars <sup>9</sup> .....	21,202	(NA)	197,273	14,169	(NA)	82,620
3742245							
3742298							
3742331							
3742351							
	Made in manufacturing plants.....	12,551	(NA)	123,206	9,544	(NA)	57,637
	Made in railroad plants.....	8,651	(NA)	74,067	4,625	(NA)	24,983
3742313	Other cars, including railroad work equipment, street, subway, rapid transit, trackless trolleys and interurban cars.....	xxx	xxx	196,539	(NA)	(NA)	14,813
3742321	Parts for passenger and freight train cars, self-propelled cars, and street, rapid transit, and interurban cars (except wheels) (for sale separately) <sup>10</sup> .....						
3742000	Railroad and street cars, nsk.....				xxx	xxx	130,147 (NA)

See footnotes at end of table.



Table 6A.--Value of Work Done and Quantity and Value of Shipments by all Producers in the United States. 1958 and 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3751---	Motorcycles and bicycles, total.....	.....	xxx	105,821	xxx	88,340
3751013 3751053	} Motorcycles, motor bikes, motorscooters, and parts.....	.....	xxx	26,019	xxx	16,305
	Bicycles and parts.....	.....	xxx	76,442	xxx	72,035
3751061 3751071	Bicycles complete..... Parts for bicycles, including frame sets (including motor bike parts which are interchangeable with bicycle parts).....	No. of units .....	2,049,161 xxx	59,612 16,830	1,746,000 xxx	54,976 17,059
3751000	Motorcycles, bicycles, and parts, nsk.....	.....	xxx	3,360	xxx	...
3791---	Trailer coaches, housing type, total.....	.....	xxx	444,782	xxx	216,909
3791011 3791000	Trailer coaches, housing type..... Automobile trailers, nsk.....	No. of units .....	135,158 xxx	418,861 1125,921	72,122 xxx	212,686 114,223
3799---	Transportation equipment, nec, total.....	.....	xxx	99,954	xxx	58,497
37991--	Automobile trailers, excluding housing type coaches.....	.....	xxx	22,653	xxx	14,615
3799115 3799151	Other automobile trailers (commercial display, utility, camp, etc.) complete units..... Chassis for automobile trailers, sold separately.....	1,000 units. ...do.....	25 54	11,888 10,765	(NA) (NA)	139,982 4,633
37992--	Other transportation equipment.....	.....	xxx	1277,301	xxx	43,882
3799213	Farm wagons, trucks, and other farm transportation equipment and parts (as reported on Census Form MA-35A for 1958).....	.....	xxx	37,501	xxx	23,545
3799211 3799215	Wagons and truck (chassis only) and trailer gears: 2-wheel..... 4-wheel.....	1,000 units. ...do.....	2 105	604 13,180	3 105	336 11,767
3799216 3799218	Boxes and racks for mounting on wagons, trucks, and trailer gears: Manual unloading or dump..... Power unloading.....	...do..... ...do.....	40 14	6,883 6,510	41	4,513
3799219 3799221 3799225 3799231 3799233 3799291 3799298 3799299	Other farm transportation equipment..... Attachments..... Parts..... Handcarts and pushcarts, including parts and attachments..... Wheelbarrows..... Boat trailers..... Other miscellaneous transportation equipment..... Miscellaneous transportation equipment, nsk.....	..... ..... ..... ..... ..... 1,000 units. ..... ..... .....	xxx xxx xxx xxx (NA) 178 xxx xxx xxx	2,885 3,772 3,667 8,855 6,642 19,878 7,357 1234,569	xxx xxx xxx xxx (NA) (NA) (13) xxx	1,582 3,337 2,010 7,922 6,972 (13) 5,443

NA Not available.

<sup>1</sup>The total value of work done for ship building and repairing differs from "value of shipments." See text for explanation. However, the figures for codes 3731121 through 3731181 are value of shipments. For these codes in 1954, value of work done was also collected. It amounted to \$55,341 thousand.

<sup>2</sup>Excludes products manufactured by facilities operated by the Department of Defense, or at Federal, District of Columbia, and State prisons. See the Special Report on Manufacturing Activity in Government Establishments.

<sup>3</sup>In 1958, data for code 3731110, nonpropelled ships, new construction, military, including hopper barges, etc." were withheld to avoid disclosing figures for individual companies. They are included with code 3731000 "ship building and repairing, nsk."

<sup>4</sup>Data excludes parts shipped by railroad repair shops. No new or rebuilt locomotives were produced in railroad repair shops in either 1958 or 1954.

<sup>5</sup>For 1958, no shipments of "other railroad service types" (code 3741151) were reported.

<sup>6</sup>For both 1958 and 1954, total excludes value of new and rebuilt freight train cars, made in railroad car shops.

<sup>7</sup>Values of railroad cars built by railroads for own use represents the amounts at which they were written into property accounts.

<sup>8</sup>Included with figures for other freight train cars (code 3742298). Figure of \$471,824 thousand for product class 37422 includes an undetermined value from product class 37423.

<sup>9</sup>A passenger and freight train car is defined as rebuilt when the cost of their dismantling, improvement and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Conversions, reclassifications or units which were reconditioned by replacing defective parts are not included. There were no rebuilt passenger train cars in 1958.

<sup>10</sup>Excludes parts for passenger and freight cars made in railroad car shops.

<sup>11</sup>In both 1958 and 1954, an undetermined dollar amount of other automobile trailers (boat, camping, commercial display, etc.) was included in code 3791000.

<sup>12</sup>Includes \$30,773 thousand of farm wagons, and other farm transportation equipment reported in the 1958 Census of Manufactures. In the Census Bureau's annual detailed commodity survey (MA-35A) such products totaled \$37,501 thousand. The difference is primarily due to insufficient detail reported on "short forms" in the Census of Manufactures. Codes 3799213 through 3799225 include the data collected on Form MA-35A.

<sup>13</sup>In 1954, "Other automobile trailers" included "Boat Trailers."



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States: 1958

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of work done	Product class, region, and State <sup>1</sup>	Value of work done	Product class, region, and State <sup>1</sup>	Value of work done
<u>Nonpropelled ships, new construction (37311):</u>		<u>Repair of nonmilitary ships (37316)--Continued</u>		<u>Boat repair, military and non-military (37324):</u>	
United States, total.....	95,266	North Central.....	24,613	United States, total.....	55,086
Northeast.....	10,980	Ohio.....	4,874	New England.....	4,812
New York.....	1,720	Michigan.....	3,160	Massachusetts.....	2,307
North Central.....	15,523	Wisconsin.....	11,487	Connecticut.....	1,016
South Atlantic.....	6,508	South Atlantic.....	110,947	Middle Atlantic.....	7,456
East South Central.....	21,840	Virginia.....	29,398	New York.....	5,185
West South Central.....	35,225	Florida.....	18,571	New Jersey.....	2,126
Louisiana.....	14,836	East South Central.....	32,722	North Central.....	1,938
Texas.....	20,389	West South Central.....	39,704	South.....	24,681
Pacific.....	5,190	Louisiana.....	21,127	Maryland.....	2,756
Self-propelled United States military ships, new construction (37312):		Texas.....	18,577	Virginia.....	2,523
United States, total.....	469,965	Pacific.....	41,508	Florida.....	8,212
Northeast.....	273,488	Washington.....	5,093	Louisiana.....	2,621
New York.....	1,247	Oregon.....	5,044	Texas.....	5,268
North Central.....	26,950	California.....	31,371	West.....	16,199
South.....	126,742	<u>Inboard motor boats (37321):</u>		Washington.....	2,678
Pacific.....	42,785	United States, total.....	76,095	Oregon.....	1,033
Washington.....	32,050	New England.....	3,112	California.....	12,527
California.....	10,735	Maine.....	1,033	<u>Automobile trailers, excluding housing type coaches (37991):</u>	
<u>Self-propelled nonmilitary ships, new construction (37313):</u>		Middle Atlantic.....	15,596	United States, total.....	22,653
United States, total.....	441,220	New Jersey.....	6,863	Northeast.....	2,001
Northeast.....	148,457	North Central.....	21,703	East North Central.....	8,901
New York.....	5,302	South Atlantic.....	24,498	Illinois.....	1,501
North Central.....	27,924	Maryland.....	17,269	Michigan.....	2,067
Wisconsin.....	8,048	Florida.....	4,393	West North Central.....	1,364
South.....	232,871	East South Central.....	2,264	South and West.....	10,387
Florida.....	5,263	West South Central.....	2,490	Texas.....	3,122
Texas.....	3,949	Louisiana.....	2,313	California.....	5,985
West.....	31,968	West.....	6,432	<u>Other transportation equipment (37992):</u>	
<u>Ship repair United States military (37314):</u>		Washington.....	1,572	United States, total.....	77,301
United States, total.....	123,838	California.....	4,460	Northeast.....	11,722
Northeast.....	47,199	<u>Outboard motor boats (37322):</u>		Pennsylvania.....	6,962
Massachusetts.....	14,281	United States, total.....	108,360	East North Central.....	34,310
New York.....	14,789	Northeast.....	15,615	Ohio.....	7,949
New Jersey.....	11,402	New York.....	4,478	Indiana.....	4,890
East North Central and South.....	31,175	Pennsylvania.....	4,151	Illinois.....	15,831
Virginia.....	8,959	North Central.....	43,243	Michigan.....	2,150
Florida.....	5,249	Indiana.....	13,352	Wisconsin.....	3,490
Louisiana.....	2,860	Illinois.....	1,744	West North Central.....	12,674
Pacific.....	45,464	Michigan.....	5,150	Minnesota.....	2,341
Washington.....	9,388	Wisconsin.....	7,384	Iowa.....	7,772
Oregon.....	6,513	Minnesota.....	8,722	Nebraska.....	1,121
California.....	29,563	Iowa.....	1,334	South Atlantic.....	4,943
<u>Repair of nonmilitary ships (37316):</u>		Missouri.....	2,205	Florida.....	3,625
United States, total.....	326,778	South.....	36,971	East South Central.....	1,837
New England.....	4,619	Maryland.....	2,813	West South Central.....	2,713
Massachusetts.....	3,201	North Carolina.....	1,440	Texas.....	2,016
Middle Atlantic.....	72,665	Georgia.....	1,410	West.....	9,102
New York.....	40,714	Florida.....	5,262	Oregon.....	1,509
New Jersey.....	26,038	Tennessee.....	3,646	California.....	7,049
Pennsylvania.....	5,913	Texas.....	15,860		
		West.....	12,531		
		Washington.....	5,169		
		California.....	6,505		

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosing operations of individual companies: 37311, New Jersey, Pennsylvania, Indiana, Missouri, Delaware, Maryland, West Virginia, Kentucky, Tennessee, Alabama, Mississippi, Washington, Oregon, and California; 37312, Maine, Massachusetts, Connecticut, New Jersey, Ohio, Michigan, Wisconsin, Maryland, Virginia, Florida, Mississippi, and Louisiana; 37313, Massachusetts, New Jersey, Pennsylvania, Ohio, Michigan, Missouri, Maryland, Virginia, North Carolina, Mississippi, Louisiana, Washington, Oregon, and California; 37314, Connecticut, Maryland, South Carolina, and Alabama; 37316, Illinois, Missouri, Maryland, Georgia, Alabama, and Mississippi; 3732, New York, Pennsylvania, Ohio, Michigan, Missouri, and Tennessee; 37322, New Jersey, Ohio, Kansas, and Arkansas; 37324, Georgia; 37991, Pennsylvania; and 37992, Massachusetts, Connecticut, and Tennessee.



Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3731—SHIP BUILDING AND REPAIRING					
	Materials, parts, containers, and supplies, total.....		xxx	669,205	xxx	354,596
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	32,051	5,442	26,534	4,487
331212	Sheet and strip.....	do.....	28,941	4,860	23,563	3,017
331213	Plates.....	do.....	571,048	84,493	288,802	31,337
331215	Structural shapes.....	do.....	140,936	19,691	120,666	13,926
331217	Wire and wire products.....	do.....	3,515	1,275	1,828	610
331219	All other carbon steel mill shapes and forms.....	do.....	27,096	6,574	14,757	3,026
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	1,026	355	874	299
331225	All other alloy steel mill shapes and forms.....	do.....	33,720	18,042	12,515	7,741
331231	Stainless steel mill shapes and forms.....	do.....	1,632	2,593	1,215	1,425
	Copper and copper-base alloy:					
363111	Insulated wire and cable.....	1,000 lbs. copper content	} (NA)	(NA)	8,611	9,901
335111	Bare wire for electrical conduction.....	1,000 lbs.....				
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....	7,268	6,444	4,782	3,116
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate, and foil.....	do.....	4,692	3,035	(NA)	( <sup>1</sup> )
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	1,694	1,040	(NA)	( <sup>1</sup> )
	Primary metals and scrap (ingot, pig, etc.):					
331251	Pig iron.....	Short tons....	1,167	73	1,653	95
333111	Copper and copper-base alloy refinery shapes.....	do.....	689	429	1,406	754
	Scrap:					
941011	Iron and steel.....	do.....	2,352	94	6,744	243
	Castings (rough and semifinished):					
332311	Steel <sup>2</sup> .....	do.....	10,448	6,278	4,233	2,320
336121	Copper and copper-base alloy <sup>2</sup> .....	1,000 lbs.....	5,980	4,689	2,852	1,198
361431	Integral horsepower electric motors and generators (1 horsepower and over)	Thousands....	4	6,872	1	1,911
351921	Diesel and semi-Diesel engines.....	Number.....	449	10,336	211	3,014
351911	Gasoline and other carburetor engines.....	do.....	331	336	(NA)	( <sup>1</sup> )
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	147,085	xxx	1266,176
973000	Materials, parts, containers and supplies, nsk.....		xxx	12,169	xxx	(NA)
	INDUSTRY 3732—BOAT BUILDING AND REPAIRING					
	Materials, parts, containers, and supplies, total.....		xxx	161,665	xxx	67,035
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	923	197	3,097	435
331212	Sheet and strip.....	do.....	7,815	1,642	2,684	359
331213	Plates.....	do.....	2,019	422	11,392	1,398
331215	Structural shapes.....	do.....	485	130	6,475	862
331217	Wire and wire products.....	do.....	} 375	181	341	109
331219	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	} 206	163	254	192
331225	All other alloy steel mill shapes and forms.....	do.....				
331231	Stainless steel mill shapes and forms.....	do.....				
335119	Copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.....	1,487	1,173	1,119	929
	Aluminum and aluminum-base alloy mill shapes and forms:					
335257	Sheet, plate, and foil.....	do.....	12,200	6,665	( <sup>1</sup> )	( <sup>1</sup> )
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	2,219	1,339	( <sup>1</sup> )	( <sup>1</sup> )
	Scrap:					
941021	Copper and copper-base alloy.....	Short tons....	588	667	( <sup>1</sup> )	( <sup>1</sup> )
	Castings (rough and semifinished):					
332311	Steel.....	do.....	149	96	( <sup>1</sup> )	( <sup>1</sup> )
336121	Copper and copper-base alloy.....	1,000 lbs.....	681	1,096	1,826	1,795
351921	Diesel and semi-Diesel engines.....	Number.....	451	2,702	200	791
351911	Gasoline and other carburetor engines <sup>4</sup> .....	do.....	10,578	8,064	24,652	4,169
970099	All other materials and components, parts, containers, and supplies consumed.....		43,001	82,022	xxx	138,857
973000	Materials, parts, containers and supplies, nsk.....		xxx	55,106	xxx	17,139

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3741—LOCOMOTIVES AND PARTS					
	Materials, parts, containers, and supplies, total.....		xxx	205,480	xxx	235,387
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	10,616	1,746	21,351	2,559
331212	Sheet and strip.....	do.....	17,944	2,954	27,380	2,847
331213	Plates.....	do.....	44,242	5,813	93,777	9,660
331215	Structural shapes.....	do.....	13,001	1,785	34,037	3,607
331217	Wire and wire products.....	do.....	9,888	2,475	19,185	2,155
331219	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	1,362	420	1,701	434
331225	All other alloy steel mill shapes and forms.....	do.....			5,681	1,753
331231	Stainless steel mill shapes and forms.....	do.....	406	591	289	343
	Copper and copper-base alloy:					
335111	Bare wire for electrical conduction.....	1,000 lbs....	2,087	916	4,558	1,948
363111	Insulated wire and cable.....	1,000 lbs. copper content	4,491	2,985	3,246	2,317
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs....	6,014	3,502	11,237	6,403
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate and foil.....	do.....	379	156	685	411
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....				
	Castings (rough and semifinished):					
332011	Iron (gray and malleable) <sup>5</sup> .....	Short tons....	14,468	7,905	11,334	5,497
332311	Steel <sup>5</sup> .....	do.....	17,583	9,802	22,221	11,398
336121	Copper and copper-base alloy <sup>5</sup> .....	1,000 lbs....	593	567	1,720	1,232
336111	Aluminum and aluminum-base alloy <sup>5</sup> .....	do.....	934	992	1,213	983
339111	Iron and steel forgings.....	Short tons....	13,185	5,355	( <sup>1</sup> )	( <sup>1</sup> )
361431	Integral horsepower electric motors and generators (1 horsepower and over) <sup>5</sup> .....	Thousands....	4	20,196	11	15,390
351921	Diesel and semi-Diesel engines <sup>5</sup> .....	Number.....	431	12,726	594	9,785
359311	Ball and roller bearings.....		xxx	2,887	xxx	4,782
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	120,615	xxx	<sup>1</sup> 151,749
973000	Materials, components, parts, containers and supplies, nsk.....		xxx	18,842	xxx	(NA)
	INDUSTRY 3742—RAILROAD AND STREET CARS					
	Materials, parts, containers, and supplies, total.....		xxx	301,258	xxx	274,787
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	48,230	6,764	56,955	6,892
331212	Sheet and strip.....	do.....	75,030	11,139	175,909	18,678
331213	Plates.....	do.....	294,296	38,854	218,316	22,349
331215	Structural shapes.....	do.....	113,708	15,907	128,654	14,141
331217	Wire and wire products.....	do.....	657	232	1,191	247
331219	All other carbon steel mill shapes and forms.....	do.....	45,728	10,120	45,397	7,267
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	5,057	974	6,597	1,067
331225	All other alloy steel mill shapes and forms.....	do.....			4,631	679
331231	Stainless steel mill shapes and forms.....	do.....	408	579	6,421	6,389
	Copper and copper-base alloy:					
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs....	188	124	4,062	1,433
	Aluminum and aluminum-base alloy:					
335257	Sheet, plate and foil.....	do.....	4,228	2,312	3,216	1,898
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	201	159	( <sup>1</sup> )	( <sup>1</sup> )
331251	Pig iron.....	Short tons....	13,956	849	15,204	804
941011	Scrap:					
	Iron and steel.....	do.....	25,815	921	52,217	1,389
	Castings (rough and semifinished): <sup>5</sup>					
332011	Iron (gray and malleable).....	do.....	22,188	10,268	29,230	8,156
332311	Steel.....	do.....	76,390	27,064	104,471	35,572
336121	Copper and copper-base alloy.....	1,000 lbs....	617	253	3,482	1,949
336111	Aluminum and aluminum-base alloy.....	do.....	444	382	747	691
339111	Iron and steel forgings.....	Short tons....	53,359	14,632	( <sup>1</sup> )	( <sup>1</sup> )
359311	Ball and roller bearings.....		xxx	3,221	xxx	627
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	154,715	xxx	<sup>1</sup> 144,559
973000	Materials, parts, containers and supplies, nsk.....		xxx	1,789	xxx	(NA)

See footnotes at end of table.



Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3751—MOTORCYCLES, BICYCLES AND PARTS					
	Materials, parts, containers, and supplies, total.....		xxx	64,426	xxx	51,926
	Mill shapes and forms (except castings):					
	Carbon steel:					
331211	Bars and bar shapes.....	Short tons....	4,055	795	16,321	1,941
331212	Sheet and strip.....	do.....	45,175	6,785	40,175	5,600
331217	Wire and wire products.....	do.....	3,767	901	2,743	621
331213	Plates.....	do.....	3,136	835	4,498	1,339
331215	Structural shapes.....	do.....				
331219	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel (except stainless):					
331221	Bars and bar shapes.....	do.....	581	273	4,602	570
331225	All other alloy steel mill shapes and forms.....	do.....				
331231	Stainless steel mill shapes and forms.....	do.....				
332311	Steel castings (rough and semifinished).....	do.....	237	180	5,432	631
339111	Iron and steel forgings.....	do.....	2,381	1,111	(1)	(1)
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	47,691	xxx	140,075
973000	Materials, parts, containers and supplies, nsk.....		xxx	5,855	xxx	(NA)

Code	Material	Unit of measure	1958 <sup>6</sup>	
			Quantity	Delivered cost (\$1,000)
	INDUSTRY 3791—TRAILER COACHES			
	Materials, parts, containers, and supplies, total.....		xxx	318,095
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons....	6,226	1,292
331212	Sheet and strip.....	do.....	32,976	7,981
331213	Plates.....	do.....	253	51
331215	Structural shapes.....	do.....	8,498	1,596
331219	All other carbon steel mill shapes and forms.....	do.....	5,153	915
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	5,752	1,863
331225	All other alloy steel mill shapes and forms.....	do.....		
	Copper and copper-base alloy:			
363111	Insulated wire and cable.....	1,000 lbs. copper content.	3,557	553
335111	Bare wire for electrical conduction.....	1,000 lbs.....	1,006	464
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	do.....		
	Aluminum and aluminum-base alloy:			
335257	Sheet, plate, and foil.....	do.....	17,640	8,057
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	1,126	490
	Castings (rough and semifinished): <sup>5</sup>			
332311	Steel.....	Short tons....	4,632	448
336111	Aluminum and aluminum-base alloy.....	1,000 lbs.....	289	154
229511	Coated fabrics.....	1,000 lin. yds..	25	25
	Uncoated broad-woven fabrics (piece goods):			
223331	Cotton.....	do.....	1,131	909
223451	Other broad-woven fabrics.....	do.....	142	195
282315	Unsupported plastic film and sheeting (excludes packaging materials).....	1,000 sq. yds...	28	18
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	229,527
973000	Materials, parts, containers and supplies, nsk.....		xxx	63,555

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954—Continued

Code	Material	Unit of measure	1958 <sup>6</sup>	
			Quantity	Delivered cost (\$1,000)
	INDUSTRY 3799—TRANSPORTATION EQUIPMENT, NEC			
	Materials, parts, containers, and supplies.....		xxx	50,768
	Mill shapes and forms (except castings):			
	Carbon steel:			
331211	Bars and bar shapes.....	Short tons.....	11,245	2,114
331212	Sheet and strip.....	do.....	47,114	7,337
331213	Plates.....	do.....	1,312	225
331215	Structural shapes.....	do.....	10,931	1,895
331217	Wire and wire products.....	do.....	1,809	382
331219	All other carbon steel mill shapes and forms.....	do.....	3,248	762
	Alloy steel (except stainless):			
331221	Bars and bar shapes.....	do.....	1,467	239
331225	All other alloy steel mill shapes and forms.....	do.....		
331231	Stainless steel mill shapes and forms.....	do.....		
	Aluminum and aluminum-base alloy:			
335257	Sheet, plate, and foil.....	1,000 lbs.....	329	145
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	36	28
	Castings (rough and semifinished):			
332011	Iron (gray and malleable).....	Short tons.....	223	89
332311	Steel.....	do.....	1,924	412
339111	Iron and steel forgings.....	do.....	188	83
359311	Ball and roller bearings.....		xxx	239
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	23,793
973000	Materials, parts, containers and supplies, nsk.....		xxx	13,025

NA Not available. <sup>r</sup> Revised.<sup>1</sup>For 1954, comparable data included in "All other materials and components, parts, containers and supplies consumed."<sup>2</sup>In addition establishments in this industry produced 3,819 short tons of steel castings in 1958 for incorporation into other items produced at the same establishment. In 1954 this figure was 4,500 short tons.<sup>3</sup>In addition establishments in this industry produced 1,131 thousand pounds of copper and copper base alloy castings in 1958 for incorporation into other items produced at the same establishment. In 1954 this figure was 4,743 thousand pounds.<sup>4</sup>In addition establishments in this industry produced 1,368 gasoline and other carburetor engines in 1958 and 686 in 1954, for incorporation into other items produced at the same establishment.<sup>5</sup>Does not include materials produced and consumed at same establishment.<sup>6</sup>Comparable data for 1954 not available.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>1</sup> (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3731	SHIP BUILDING AND REPAIRING (entire industry).....	319	119,147	669,826	101,153	197,707	537,814	913,687	711,937	1,625,624	38,737
	Establishments with:										
	90% or more specialization.....	258	95,246	524,699	81,783	156,647	433,653	714,340	578,790	1,291,757	29,952
	75-89% specialization.....	24	15,444	99,417	13,191	29,427	73,163	129,893	85,492	215,385	6,205
37311	Nonpropelled ships, new construction (primary product class of estab.)..	27	7,592	39,798	5,914	11,931	29,033	57,656	58,618	116,274	1,689
	Establishments with:										
	90% or more specialization.....	9	789	3,679	684	1,243	2,937	5,241	5,770	11,011	117
	75-89% specialization.....	5	1,431	8,099	1,157	2,429	5,737	11,571	13,499	25,070	666
37313	Self-propelled ships—nonmilitary, new construction (primary product class of estab.).....	52	44,934	255,367	38,228	74,721	211,502	341,618	330,207	669,489	17,553
	Establishments with:										
	90% or more specialization.....	15	667	2,718	612	1,357	2,200	5,749	4,330	10,105	262
	75-89% specialization.....	12	5,385	29,596	4,631	9,303	23,987	35,700	31,452	67,152	(D)
37316	Repair of nonmilitary ships (primary product class of estab.).....	151	32,676	174,972	27,474	49,388	135,995	244,179	107,443	351,622	10,651
	Establishments with:										
	90% or more specialization.....	83	8,950	49,061	7,198	13,380	36,853	67,213	27,445	94,658	3,447
	75-89% specialization.....	23	9,814	51,140	8,504	13,898	38,779	72,469	28,158	100,627	4,263
3732	BOAT BUILDING AND REPAIRING (entire industry).....	1,651	25,295	103,603	21,156	40,346	81,356	157,309	178,803	329,009	15,298
	Establishments with:										
	90% or more specialization.....	1,527	20,906	83,503	17,514	32,918	65,686	123,601	143,693	265,131	13,608
	75-89% specialization.....	57	2,103	8,605	1,671	3,295	6,355	14,925	16,900	30,884	561
37321	Inboard motor boats (all types) (primary product class of estab.)..	112	5,816	25,632	4,970	9,948	20,534	40,799	44,304	83,577	2,201
	Establishments with:										
	90% or more specialization.....	60	3,311	14,653	2,826	5,704	11,893	21,525	23,655	43,419	1,568
	75-89% specialization.....	16	1,796	8,128	1,529	3,002	6,347	13,285	15,798	29,419	( <sup>2</sup> )
37322	Outboard motor boats (all types including prefabricated) (primary product class of estab.)..	182	8,188	31,570	6,636	13,009	23,483	50,105	64,312	113,339	4,224
37323	All other boats (sailboats, rowboats, canoes, etc.) (primary product class of estab.).....	47	1,272	5,326	988	2,003	3,918	8,358	10,746	18,613	( <sup>2</sup> )
	Establishments with:										
	90% or more specialization.....	34	733	3,060	634	1,258	2,427	3,929	5,381	9,352	( <sup>2</sup> )
37324	Boat repair—military and nonmilitary (primary product class of estab.)....	534	5,971	26,306	5,088	9,316	21,045	33,945	35,124	65,478	2,618
	Establishments with:										
	90% or more specialization.....	443	3,614	14,672	3,090	5,377	11,863	17,416	19,191	36,688	1,403
	75-89% specialization.....	35	484	2,079	382	737	1,499	2,622	2,355	4,967	( <sup>2</sup> )
3741	LOCOMOTIVES AND PARTS (entire industry).....	25	15,282	90,097	10,742	21,092	58,332	152,086	224,754	407,540	5,275
3742	RAILROAD AND STREET CARS (entire industry).....	67	24,309	132,302	17,892	32,565	91,089	167,576	310,796	562,190	8,635
	Establishments with:										
	90% or more specialization.....	49	14,945	77,118	11,212	19,825	55,375	88,304	209,087	365,710	4,482
	75-89% specialization.....	7	2,370	14,020	1,654	3,270	9,255	21,995	34,568	62,255	1,704
37422	Freight train cars, new (primary product class of estab.).....	21	13,499	76,345	10,265	19,449	56,223	84,801	233,721	379,834	5,071
	Establishments with:										
	90% or more specialization.....	8	4,201	23,381	3,312	6,479	17,965	16,337	97,586	139,645	1,599
	75-89% specialization.....	5	3,645	20,191	2,922	5,308	15,811	23,356	57,886	104,284	1,299
37423	Street cars, parts and accessories (primary product class of estab.).....	32	10,327	53,173	7,300	12,485	32,944	81,583	70,574	170,872	3,441
	Establishments with:										
	90% or more specialization.....	24	6,758	31,575	4,709	7,572	20,152	51,803	50,263	117,416	2,074
3799	TRANSPORTATION EQUIPMENT, NEC (entire industry).....	256	4,761	20,448	3,795	7,360	14,173	38,215	55,095	92,811	2,430
	Establishments with:										
	90% or more specialization.....	195	2,728	10,854	2,217	4,044	7,671	22,003	33,369	54,862	1,468
	75-89% specialization.....	21	634	3,127	504	1,039	2,199	5,609	10,187	16,042	( <sup>2</sup> )
37991	Automobile trailers, excluding housing type coaches (primary product class of estab.).....	72	1,111	4,859	907	1,693	3,492	8,328	15,965	24,295	544
	Establishments with:										
	90% or more specialization.....	56	670	3,025	587	1,087	2,309	5,425	11,509	16,933	( <sup>2</sup> )
	75-89% specialization.....	6	101	358	85	156	279	799	1,603	2,421	( <sup>2</sup> )
37992	Other transportation equipment (primary product class of estab.)..	180	3,628	15,541	2,868	5,624	10,637	29,812	38,989	68,302	1,886
	Establishments with:										
	90% or more specialization.....	135	1,945	7,380	1,545	2,783	5,044	16,080	20,494	36,108	1,026
	75-89% specialization.....	15	600	3,092	465	979	2,134	5,079	9,577	14,843	( <sup>2</sup> )

<sup>1</sup>Revised.

<sup>2</sup>For Industry 3731, this represents value of work done. See text for fuller explanation.

<sup>3</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3731—SHIP BUILDING AND REPAIRING								
Ferrous foundry.....	4	...	3	1	(D)	...	20	(D)
Nonferrous foundry (except die casting).....	7	2	1	4	148	(D)	(D)	127
Forging.....	35	18	13	4	318	47	120	151
Heat treating and annealing.....	22	11	11	...	99	26	73	...
Machine shop.....	170	45	68	57	6,840	108	644	6,088
Tool and die shop.....	9	3	4	2	103	5	(D)	(D)
Foundry pattern shop.....	28	19	6	3	205	29	54	122
Plate or structural fabrication.....	132	12	37	83	25,879	39	339	25,501
Stamping, blanking, and forming.....	17	4	8	5	457	8	73	376
Painting, lacquering, and enameling.....	129	38	58	33	7,021	96	610	6,315
INDUSTRY 3732—BOAT BUILDING AND REPAIRING								
Ferrous foundry.....	1	...	1	...	(D)	...	(D)	...
Nonferrous foundry (except die casting).....	2	1	1	...	9	(D)	(D)	...
Forging.....	5	4	...	1	45	(D)	...	(D)
Heat treating and annealing.....	6	6	...	...	15	15	...	...
Machine shop.....	114	76	33	5	796	149	266	381
Tool and die shop.....	14	14	...	...	29	29	...	...
Foundry pattern shop.....	28	26	2	...	57	(D)	(D)	...
Plate or structural fabrication.....	46	18	22	6	452	40	180	232
Stamping, blanking, and forming.....	21	7	12	2	190	18	(D)	(D)
Painting, lacquering, and enameling.....	176	127	41	8	6,558	258	348	5,952
INDUSTRY 3741—LOCOMOTIVES AND PARTS								
Ferrous foundry.....	3	1	2	...	(D)	(D)	(D)	...
Forging.....	2	2	...	...	(D)	(D)	...	...
Automatic screw machine department.....	4	1	1	2	69	(D)	(D)	(D)
Machine shop.....	12	1	2	9	2,057	(D)	(D)	2,035
Tool and die shop.....	8	2	2	4	419	(D)	(D)	404
Plate or structural fabrication.....	7	1	2	4	2,211	(D)	(D)	2,188
Stamping, blanking, and forming.....	6	2	1	3	305	(D)	(D)	295
Painting, lacquering, and enameling.....	9	5	1	3	148	9	(D)	(D)
INDUSTRY 3742—RAILROAD AND STREETCARS								
Ferrous foundry.....	5	...	1	4	771	...	(D)	(D)
Nonferrous foundry (except die casting).....	2	1	...	1	(D)	(D)	...	(D)
Forging.....	21	3	10	8	791	6	120	665
Automatic screw machine department.....	6	3	2	1	48	5	(D)	(D)
Machine shop.....	34	6	9	19	2,120	19	112	1,989
Tool and die shop.....	20	9	6	5	572	21	81	470
Plate or structural fabrication.....	31	1	3	27	4,539	(D)	(D)	4,514
Stamping, blanking, and forming.....	27	4	7	16	879	11	101	767
Painting, lacquering, and enameling.....	35	15	8	12	643	31	90	522
INDUSTRY 3751—MOTORCYCLES, BICYCLES, AND PARTS								
Electroplating.....	10	3	4	3	153	(D)	(D)	120
Automatic screw machine department.....	8	2	3	3	120	(D)	(D)	87
Machine shop.....	13	5	4	4	587	8	40	539
Tool and die shop.....	13	7	4	2	133	14	(D)	(D)
Stamping, blanking, and forming.....	20	2	5	13	661	(D)	(D)	624
Painting, lacquering, and enameling.....	21	10	4	7	447	26	43	378
INDUSTRY 3791—TRAILER COACHES								
Heat treating and annealing.....	1	1	...	...	(D)	(D)	...	...
Machine shop.....	5	4	1	...	14	(D)	(D)	...
Tool and die shop.....	2	...	2	...	(D)	...	(D)	...
Foundry pattern shop.....	3	1	2	...	19	(D)	(D)	...
Plate or structural fabrication.....	13	4	3	6	456	10	30	416
Stamping, blanking, and forming.....	17	10	7	...	91	23	68	...
Painting, lacquering, and enameling.....	88	36	47	5	636	78	407	151

See footnotes at end of table.



Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958—Continued

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3799—TRANSPORTATION EQUIPMENT, NEC							
Electroplating.....	1	...	1	...	(D)	...	(D)	...
Automatic screw machine department.....	5	4	1	...	10	(D)	(D)	...
Machine shop.....	43	22	19	2	273	47	(D)	(D)
Tool and die shop.....	19	13	6	...	69	23	46	...
Stamping, blanking, and forming.....	42	14	20	8	424	27	186	211
Painting, lacquering, and enameling.....	56	50	6	...	134	89	45	...

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry						
	3731	3732	3741	3742	3751	3791	3799
Total number of establishments in the industry.....	319	1,651	25	67	51	386	256
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	227	1,284	23	62	47	297	217
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	90-95	75-80	over 95	over 95	over 95	75-80	75-80

D Withheld to avoid disclosing figures for individual companies.





# Major Group 38—Instruments and Related Products

This major group covers establishments primarily engaged in manufacturing mechanical measuring, engineering, laboratory, and scientific research instruments; optical instruments and lenses; surgical, medical, and dental instruments, equipment and supplies; ophthalmic goods; photographic equipment and supplies; and, watches and clocks. Establishments primarily engaged in manufactur-

ing instruments for indicating, measuring, and recording electrical quantities and characteristics are classified in Industry 3611. Dental laboratories making dentures and artificial teeth to order for the dental profession, and establishments grinding ophthalmic lenses on an individual prescription basis, are classified in Trade Industries.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees		Production workers			Value added by manufacture <sup>1</sup> adjusted	Capital expenditures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	304,336	1,632,752	202,373	398,944	921,498	2,906,390	123,621
Administrative and auxiliary establishments.....	(NA)	(NA)	7,778	54,271	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments <sup>2</sup> .....	3,526	1,193	296,558	1,578,481	202,373	398,744	921,498	2,906,390	123,621
Operating manufacturing establishments (based on old SIC).....	3,403	1,127	290,339	1,552,172	197,594	389,267	903,366	2,875,108	102,719
Operating manufacturing establishments:									
1957 <sup>3</sup> .....	(NA)	(NA)	307,207	1,570,906	211,968	428,000	946,647	2,872,262	145,691
1956 <sup>3</sup> .....	(NA)	(NA)	296,701	1,458,264	211,135	426,332	896,525	2,690,477	145,053
1955 <sup>3</sup> .....	(NA)	(NA)	282,697	1,295,200	202,447	406,402	813,731	2,366,783	106,402
1954:									
All manufacturing establishments, total <sup>3</sup> .....	(NA)	(NA)	277,895	1,200,323	195,597	391,403	759,459	2,130,958	94,008
Administrative and auxiliary establishments.....	(NA)	(NA)	5,309	33,694	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	3,141	984	272,586	1,200,322	195,597	391,403	759,459	2,128,706	94,008
Operating manufacturing establishments:									
1953 <sup>4</sup> .....	(NA)	(NA)	285,469	1,232,467	212,102	433,752	823,564	2,169,354	90,272
1952 <sup>4</sup> .....	(NA)	(NA)	278,531	1,179,955	205,384	420,014	778,584	1,994,805	(NA)
1951 <sup>4</sup> .....	2,686	(NA)	253,081	1,001,301	189,659	389,773	670,732	1,608,236	85,004
1950 <sup>4</sup> .....	2,697	(NA)	226,375	812,468	169,447	341,716	531,761	1,388,930	64,446
1949 <sup>4</sup> .....	(NA)	(NA)	204,823	682,733	156,221	305,469	447,118	1,122,649	57,944
1947 <sup>3</sup> .....	2,605	(NA)	244,872	706,055	194,303	389,940	502,168	1,140,499	56,000
1939 <sup>5</sup> .....	1,292	(NA)	(NA)	(NA)	84,867	(NA)	107,704	333,409	(NA)
1937 <sup>6</sup> .....	1,026	(NA)	(NA)	(NA)	83,814	(NA)	112,732	298,304	(NA)
1935 <sup>7</sup> .....	1,000	(NA)	83,744	108,306	67,530	(NA)	74,242	200,113	(NA)
1933.....	830	(NA)	(NA)	(NA)	49,564	(NA)	46,219	142,434	(NA)
1931.....	1,029	(NA)	(NA)	(NA)	59,892	(NA)	66,423	200,739	(NA)
1929 <sup>8</sup> .....	1,109	(NA)	98,061	148,996	81,905	(NA)	107,890	300,866	(NA)
1927 <sup>9</sup> .....	1,108	(NA)	(NA)	(NA)	78,946	(NA)	102,876	273,695	(NA)
1925.....	1,286	(NA)	88,011	124,355	73,033	(NA)	91,040	263,078	(NA)
1923 <sup>10</sup> .....	1,593	(NA)	93,189	127,340	76,639	(NA)	91,754	244,873	(NA)
1921.....	1,592	(NA)	82,931	108,794	67,218	(NA)	77,786	188,781	(NA)
1919.....	2,037	(NA)	108,711	124,837	90,615	(NA)	93,001	235,639	(NA)
1914.....	1,572	(NA)	70,958	50,017	59,850	(NA)	35,848	97,644	(NA)
1909 <sup>11</sup> .....	1,239	(NA)	(NA)	(NA)	50,848	(NA)	28,071	73,127	(NA)
1904.....	1,027	(NA)	46,377	26,297	41,907	(NA)	21,292	46,325	(NA)
1899.....	1,101	(NA)	34,847	18,196	32,060	(NA)	15,247	31,637	(NA)

NA Not available.

<sup>1</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>2</sup>Figures for 1958, for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, data for the following commodities were excluded: laboratory precision balances; laboratory furniture; revolution counters; operating room and other hospital furniture; surgical corsets; and hearing aids. Establishments primarily engaged in the manufacture of sanitary napkins and tampons are included prior to 1958.

<sup>3</sup>The figures for 1947, 1954, and later years include establishments primarily engaged in the manufacture of automatic temperature controls.

<sup>4</sup>The figures for 1949-1953, and 1955-1957, represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>5</sup>The figures for 1939 and later years are not strictly comparable with those for earlier years. Statistics for 1939 and later years (a) include data for establishments primarily engaged in manufacture of thermostats and gauges, and (b) exclude data for establishments primarily engaged in the manufacture of time-recording stamps and machines. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$314.1 million.

<sup>6</sup>The figures for 1937-54 include, whereas those for earlier years exclude, data for establishments primarily engaged in the manufacture of certain mechanical measuring instruments. Value added by manufacture for 1937, excluding data for these establishments and on a basis comparable with 1935, was \$294.5 million.

<sup>7</sup>The figures for 1935-54 include, whereas those for 1933 and earlier years exclude, data for establishments primarily engaged in manufacture of certain dental equipment and supplies (chairs, cabinets, and electrical devices).

<sup>8</sup>The figures for 1929-54 exclude, whereas those for earlier years include, data for establishments primarily engaged in manufacture of gas machines. Value added by manufacture for 1929, including data for these establishments and on a basis comparable with 1927, was \$306.3 million.

<sup>9</sup>The figures for 1927-54 exclude, whereas those for earlier years include, data for dental laboratories operating on a custom basis. Value added by manufacture for 1927 including data for these laboratories and on a basis comparable with 1925, was \$280.3 million.

<sup>10</sup>The figures for 1899-1923 include, whereas those for later years exclude, data for establishments primarily engaged in grinding lenses for spectacles and eyeglasses to individual prescription.

<sup>11</sup>The figures for 1899-1909 exclude, whereas those for 1914 and later years include, data for establishments primarily engaged in manufacture of motion-picture machines. Value added by manufacture for 1914, excluding data for such establishments, was \$96.4 million.



Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
38	INSTRUMENTS & RELATED PRODUCTS, TOTAL <sup>1</sup>	3 526	1 193	296 558	1 578 481	202 373	398 744	921 498	2 906 390	123 621	272 586	2 128 706
	NEW ENGLAND . . . . .	343	164	42 983	201 131	30 485	60 504	122 924	370 272	17 083	36 599	256 254
	MAINE . . . . .	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEW HAMPSHIRE . . . . .	9	3	267	1 047	219	425	751	1 917	58	(*)	(*)
	VERMONT . . . . .	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MASSACHUSETTS . . . . .	180	80	21 012	100 728	14 648	29 429	59 699	210 045	11 537	17 948	130 113
	RHODE ISLAND . . . . .	34	15	2 866	12 590	2 146	4 078	7 783	19 320	378	2 249	13 181
	CONNECTICUT . . . . .	109	60	18 195	84 114	12 975	25 507	52 834	132 626	4 952	15 788	105 796
	MIDDLE ATLANTIC . . . . .	1 311	436	134 781	775 069	89 611	173 948	439 605	1 435 372	65 277	131 161	1 079 156
	NEW YORK . . . . .	869	265	84 632	502 306	56 209	108 307	282 061	979 398	41 512	79 999	700 389
	NEW JERSEY . . . . .	216	78	26 885	155 262	18 130	35 799	89 539	248 277	13 348	25 863	194 243
	PENNSYLVANIA . . . . .	226	93	23 264	117 501	15 272	29 842	68 005	207 697	10 417	25 398	184 523
	EAST NORTH CENTRAL . . . . .	751	288	63 449	325 846	43 419	87 045	194 909	595 775	20 835	60 938	457 366
	OHIO . . . . .	180	77	9 606	45 730	6 351	12 597	25 185	77 393	2 314	9 336	63 086
	INDIANA . . . . .	62	21	3 459	15 333	2 705	5 320	10 809	31 417	757	2 837	23 257
	ILLINOIS . . . . .	336	132	30 962	152 985	21 318	42 200	93 202	302 905	9 059	31 879	234 404
	MICHIGAN . . . . .	107	33	8 746	49 542	6 203	13 040	32 316	83 176	1 434	9 229	80 373
	WISCONSIN . . . . .	66	25	10 676	62 256	6 842	13 888	33 397	100 884	7 271	7 655	56 245
	WEST NORTH CENTRAL . . . . .	181	57	18 158	93 856	11 176	22 306	47 760	163 931	4 103	17 319	141 582
	MINNESOTA . . . . .	56	16	12 223	67 058	6 990	14 024	31 057	117 343	2 458	(*)	(*)
	IOWA . . . . .	20	5	1 749	8 340	1 036	2 124	4 512	11 781	(D)	2 044	16 850
	MISSOURI . . . . .	79	29	3 227	15 061	2 319	4 632	9 579	27 606	829	3 042	23 468
	NORTH DAKOTA . . . . .	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	SOUTH DAKOTA . . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	NEBRASKA . . . . .	14	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	KANSAS . . . . .	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	121	739
	SOUTH ATLANTIC . . . . .	158	48	7 316	28 292	5 652	11 351	18 373	122 670	4 919	5 121	27 147
	DELAWARE . . . . .	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MARYLAND . . . . .	41	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 592	9 952
	DISTRICT OF COLUMBIA . . . . .	9	1	96	408	67	133	255	592	15	(*)	(*)
	VIRGINIA . . . . .	18	10	1 671	5 714	1 334	2 645	3 742	8 807	1 054	1 536	6 370
	WEST VIRGINIA . . . . .	9	4	355	1 170	308	678	904	1 653	46	297	1 608
	NORTH CAROLINA . . . . .	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	779	4 302
	SOUTH CAROLINA . . . . .	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	136	600
	GEORGIA . . . . .	18	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	FLORIDA . . . . .	40	8	784	2 791	688	1 361	2 165	3 907	400	285	1 426
	EAST SOUTH CENTRAL . . . . .	55	11	2 987	14 043	2 142	4 338	8 817	22 289	2 136	3 390	19 672
	KENTUCKY . . . . .	13	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 084	4 918
	TENNESSEE . . . . .	22	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2 175	13 931
	ALABAMA . . . . .	12	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MISSISSIPPI . . . . .	8	1	72	236	58	114	162	453	13	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	144	40	6 916	28 640	5 410	10 671	18 786	70 668	2 482	2 795	22 908
	ARKANSAS . . . . .	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	LOUISIANA . . . . .	12	3	194	818	115	213	429	1 665	42	161	733
	OKLAHOMA . . . . .	23	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	515	3 993
	TEXAS . . . . .	106	27	4 592	20 326	3 396	6 755	12 452	47 309	2 028	2 106	18 128
	WEST . . . . .	583	149	20 053	111 931	14 514	28 649	70 466	200 918	7 318	15 160	124 618
	MONTANA . . . . .	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	IDAHO . . . . .	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	WYOMING . . . . .	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	COLORADO . . . . .	27	6	488	2 392	356	667	1 452	3 997	102	677	3 996
	NEW MEXICO . . . . .	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	ARIZONA . . . . .	14	2	400	2 439	262	515	1 188	5 088	162	(*)	(*)
	UTAH . . . . .	8	...	34	84	28	39	60	157	6	(*)	(*)
	WASHINGTON . . . . .	27	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	410	2 933
	OREGON . . . . .	18	4	570	2 824	375	749	1 645	4 901	283	506	5 266
	CALIFORNIA . . . . .	477	131	18 114	102 249	13 142	26 017	64 625	183 334	6 621	13 381	111 243
381	SCIENTIFIC INSTRUMENTS, TOTAL <sup>2</sup> . . .	567	206	67 456	399 165	43 146	87 192	222 481	606 530	25 593	(*)	(*)
382	MECHANICAL MEASURING DEVICES, TOTAL <sup>1</sup>	710	273	75 562	387 462	50 172	98 581	225 956	716 095	24 204	69 422	542 602
	NEW ENGLAND . . . . .	84	40	14 750	74 237	9 216	18 215	40 166	128 653	4 682	10 772	84 573
	MASSACHUSETTS . . . . .	42	18	7 044	35 124	4 311	8 462	17 476	60 171	2 491	(*)	(*)
	CONNECTICUT . . . . .	34	17	6 164	31 483	3 972	7 784	18 745	54 643	1 894	4 327	37 393
	MIDDLE ATLANTIC . . . . .	237	86	22 874	119 404	15 307	29 523	70 601	204 073	9 258	22 155	165 478
	NEW YORK . . . . .	134	38	7 342	37 614	5 250	10 132	24 107	62 913	1 110	6 893	54 709
	NEW JERSEY . . . . .	50	19	2 250	10 467	1 672	3 181	6 796	19 534	493	1 864	14 070
	PENNSYLVANIA . . . . .	53	29	13 282	71 323	8 385	16 210	39 698	121 626	7 655	13 397	96 699
	EAST NORTH CENTRAL . . . . .	176	81	19 856	99 453	12 895	25 208	56 124	192 434	4 635	19 508	150 877
	OHIO . . . . .	49	31	6 008	29 921	3 751	7 550	15 718	50 560	1 566	5 447	37 180
	INDIANA . . . . .	14	4	1 625	7 337	1 294	2 466	5 343	14 961	358	1 642	14 865
	ILLINOIS . . . . .	67	27	7 778	38 498	4 833	9 245	20 864	88 973	1 828	6 828	58 102
	MICHIGAN . . . . .	30	11	1 850	10 652	1 159	2 334	5 921	14 702	245	3 354	23 975
	WISCONSIN . . . . .	16	8	2 595	13 045	1 858	3 613	8 278	23 238	638	2 235	16 755
	WEST NORTH CENTRAL . . . . .	26	7	7 339	37 710	4 676	9 494	20 268	79 620	1 714	7 867	68 977

See footnotes at end of table.



Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
382	MECHANICAL MEASURING DEVICES <sup>1</sup> —CON.											
	SOUTH . . . . .	79	20	2 739	13 030	1 972	3 872	8 506	26 043	811	2 921	20 713
	MARYLAND . . . . .	9	2	104	586	77	145	355	967	7	409	2 449
	TEXAS . . . . .	26	7	459	2 124	333	657	1 318	6 521	117	224	2 624
	WEST . . . . .	108	39	8 004	43 628	6 106	12 269	30 291	85 272	3 104	6 196	51 980
	CALIFORNIA . . . . .	90	35	7 672	42 160	5 854	11 775	29 262	83 187	2 984	6 021	50 777
383	OPTICAL INSTRUMENTS AND LENSES, TOTAL <sup>2</sup>	224	58	7 184	37 586	5 141	10 485	23 459	60 387	3 438	8 749	59 919
384	MEDICAL INSTRUMENTS & SUPPLIES, TOTAL	1 070	304	41 714	194 520	29 565	57 810	114 238	414 367	13 439	(*)	(*)
	NEW ENGLAND . . . . .	94	42	5 140	20 339	3 962	7 841	13 532	35 499	1 216	(*)	(*)
	MASSACHUSETTS . . . . .	53	20	1 448	5 622	1 061	2 048	3 457	9 714	202	(*)	(*)
	CONNECTICUT . . . . .	25	17	3 300	13 447	2 557	5 176	9 074	22 776	909	(*)	(*)
	MIDDLE ATLANTIC . . . . .	341	105	18 434	93 563	12 619	25 209	52 421	196 378	6 723	(*)	(*)
	NEW YORK . . . . .	220	58	7 233	34 894	5 480	11 041	22 592	75 417	1 939	(*)	(*)
	NEW JERSEY . . . . .	45	16	6 328	36 463	3 927	7 876	17 346	71 824	3 646	(*)	(*)
	PENNSYLVANIA . . . . .	76	31	4 873	22 206	3 212	6 292	12 483	49 137	1 138	(*)	(*)
	EAST NORTH CENTRAL . . . . .	251	91	10 540	48 659	7 547	14 449	29 838	117 369	2 569	(*)	(*)
	OHIO . . . . .	76	29	2 379	10 127	1 731	3 340	6 077	17 144	444	(*)	(*)
	INDIANA . . . . .	21	8	819	3 557	614	1 229	2 328	8 118	140	(*)	(*)
	ILLINOIS . . . . .	104	39	5 706	27 863	4 013	7 572	17 107	76 428	1 528	(*)	(*)
	WEST NORTH CENTRAL . . . . .	72	20	2 498	10 573	1 754	3 378	6 160	18 476	931	(*)	(*)
	MISSOURI . . . . .	28	13	1 370	5 898	991	1 962	3 697	9 768	419	(*)	(*)
	SOUTH . . . . .	122	21	2 629	9 091	2 025	3 881	5 905	22 959	1 163	(*)	(*)
	FLORIDA . . . . .	16	1	109	354	88	167	256	698	51	(*)	(*)
	KENTUCKY . . . . .	7	2	191	585	170	324	483	925	6	(*)	(*)
	WEST . . . . .	190	25	2 473	12 295	1 658	3 052	6 382	23 686	837	(*)	(*)
	COLORADO . . . . .	15	4	259	1 287	158	295	577	2 319	36	(*)	(*)
	CALIFORNIA . . . . .	143	19	2 054	10 446	1 372	2 545	5 406	20 008	756	(*)	(*)
385	OPHTHALMIC GOODS, TOTAL <sup>2</sup>	246	104	18 223	71 465	15 272	29 988	53 525	136 696	5 367	18 464	110 452
386	PHOTOGRAPHIC EQUIPMENT, TOTAL <sup>2</sup>	480	159	60 262	368 970	38 542	74 256	201 597	788 759	46 770	63 008	587 344
387	WATCHES AND CLOCKS, TOTAL	229	89	26 157	119 313	20 535	40 432	80 242	183 556	4 810	29 504	199 300
	NEW ENGLAND . . . . .	26	18	8 479	38 932	6 578	13 082	26 227	54 823	877	9 756	55 473
	MASSACHUSETTS . . . . .	11	6	2 502	12 363	1 690	3 491	7 368	22 899	420	2 536	17 468
	MIDDLE ATLANTIC . . . . .	138	42	6 741	37 000	4 952	9 707	21 787	57 533	1 817	8 613	73 993
	NEW YORK . . . . .	126	36	4 866	27 422	3 546	6 923	15 487	45 047	1 032	5 290	52 416
	NORTH CENTRAL . . . . .	44	22	7 700	33 508	5 987	11 823	24 091	39 250	1 531	9 640	61 522
	ILLINOIS . . . . .	25	11	6 445	27 838	4 979	9 807	19 977	31 891	1 348	8 033	48 324
	MICHIGAN . . . . .	6	3	347	1 551	296	572	1 180	2 061	31	(*)	(*)
	SOUTH . . . . .	12	6	3 148	9 414	2 955	5 767	8 000	30 963	560	1 453	8 084
	WEST . . . . .	9	1	89	459	63	53	137	987	25	(*)	(*)

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown (a) to avoid disclosing figures for individual companies or (b) because of revisions in the Standard Industrial Classification system which resulted in noncomparable data.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1954 data for this Major Group are not strictly comparable with 1958 figures shown in the table. See Appendix A or section relating to the specified industry in 1958 Census of Manufactures, Volume II for further information on the comparability of 1958 and 1954 statistics.

<sup>2</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Instruments and related products (SIC 38)	Scientific instruments (SIC 381)	Mechanical measuring devices (SIC 382)	Optical instruments and lenses (SIC 383)	Medical instruments and supplies (SIC 384)	Ophthalmic goods (SIC 385)	Photo- graphic equipment (SIC 386)	Watches and clocks (SIC 387)
Number of establishments, total.....	3,526	567	710	224	1,070	246	480	229
With 1-19 employees.....	2,333	361	437	166	766	142	321	140
With 20-99 employees.....	772	131	154	42	216	75	99	55
With 100 employees or more.....	421	75	119	16	88	29	60	34
Proprietors and working partners.....Number..	1,449	222	234	111	530	95	163	94
All employees:								
Number (average for the year).....	296,558	67,456	75,562	7,184	41,714	18,223	60,262	26,157
Payroll.....\$1,000..	1,578,481	399,165	387,462	37,586	194,520	71,465	368,970	119,313
Production workers:								
Number (average for the year).....	202,373	43,146	50,172	5,141	29,565	15,272	38,542	20,535
March.....	203,507	43,131	50,955	4,949	29,812	15,530	38,616	20,514
May.....	199,241	42,704	49,351	5,080	29,488	15,218	38,043	19,357
August.....	199,844	42,838	49,240	5,135	29,175	14,704	38,498	20,254
November.....	207,712	44,098	51,353	5,653	30,026	15,387	39,148	22,047
Man-hours.....1,000..	398,744	87,192	98,581	10,483	57,810	29,988	74,256	40,432
January-March.....do....	100,228	21,283	25,183	2,532	14,600	7,736	18,911	9,983
April-June.....do....	98,994	21,847	24,639	2,553	14,568	7,672	18,291	9,424
July-September.....do....	92,323	20,893	22,479	2,452	13,668	5,531	17,471	9,829
October-December.....do....	105,220	22,862	25,893	2,842	15,172	7,978	19,346	11,127
Wages.....\$1,000..	921,498	222,481	225,956	23,459	114,238	53,525	201,597	80,242
Value added by manufacture, adjusted.....do....	2,906,390	606,530	716,095	60,387	414,367	136,696	788,759	183,556
Cost of fuels consumed.....do....	14,424	1,546	2,426	293	1,927	1,064	6,430	738
Cost of electricity purchased.....do....	17,211	3,734	4,453	439	2,798	1,100	3,483	1,204
Manufacturers' inventories:								
Beginning of year, total.....do....	999,786	237,815	263,670	20,201	127,478	58,103	208,594	83,925
Finished products.....do....	240,758	17,544	61,120	5,476	48,961	23,427	62,677	21,553
Work-in-process.....do....	501,799	177,674	127,402	12,326	36,761	21,514	81,400	44,722
Materials, supplies, fuel, etc.....do....	257,229	42,597	75,148	2,399	41,756	13,162	64,517	17,650
End of year, total.....do....	983,847	245,412	257,460	22,003	127,348	59,602	204,202	67,820
Finished products.....do....	237,344	18,956	62,037	6,406	47,538	25,587	59,798	17,022
Work-in-process.....do....	499,708	186,309	122,673	11,496	38,822	23,614	80,452	36,342
Materials, supplies, fuel, etc.....do....	246,795	40,147	72,750	4,101	40,988	10,401	63,952	14,456
Expenditures for plant and equipment, total.....do....	132,876	28,951	28,099	3,492	14,057	5,537	47,843	4,897
New, total.....do....	123,621	25,593	24,204	3,438	13,439	5,367	46,770	4,810
New structures and additions to plant.....do....	39,809	10,710	7,541	2,035	3,150	1,016	14,532	825
New machinery and equipment.....do....	83,812	14,883	16,663	1,403	10,289	4,351	32,238	3,985
Used plant and equipment.....do....	9,255	3,358	3,895	( <sup>1</sup> )	618	( <sup>1</sup> )	1,073	87

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>Less than \$500 thousand.



# Instruments; Surgical, Dental and Ophthalmic Goods

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3811--Engineering, Laboratory and Scientific and Research Instruments and Associated Equipment
- 3821--Mechanical Measuring and Controlling Instruments, Except Automatic Temperature Controls
- 3822--Automatic Temperature Controls
- 3831--Optical Instruments and Lenses
- 3841--Surgical and Medical Instruments and Apparatus
- 3842--Orthopedic, Prosthetic, and Surgical Appliances and Supplies
- 3843--Dental Equipment and Supplies
- 3851--Ophthalmic Goods

Each of these industries is characterized by a wide variety of products. However, most of the individual establishments tend to specialize in a single product or group of similar products. Although data are collected for only one to ten product items in each industry, many of the categories include hundreds of different specific products. For example, data for all types of surveying and drafting instruments and apparatus are presented as a single item. The products included in many of these items are highly diversified and range from very simple hand tools to highly complex instruments such as mapping equipment.

Establishments in the instrument industries (particularly Industries 3811, 3821, and 3831 covered in this report and Industry 3611, Electric Measuring Instruments, which includes plants primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities and characteristics,) produce a wide variety of complex items requiring skilled workmanship and an unusually high degree of precision. Plants of this type have a higher ratio of wages to value of shipments than are found in other industries. The instrument industries have also experienced significant technological advances which have intensified even further the need for the high degree of precision.

Industries 3842, Surgical Appliances and Supplies, and 3843, Dental Equipment and Supplies, include many establishments which specialize in a single line of appliances or supplies. These establishments perform a wide variety of manufacturing processes and consume different types of materials. However, they are brought together into these two industries by the use to which their products are put.

Separate descriptions of these industries are given below.

## 3811--Engineering, Laboratory, and Scientific and Research Instruments and Associated Equipment

This industry comprises establishments primarily engaged in manufacturing laboratory, scientific, and engineering instruments such as nautical, navigational, aero-

autical, surveying, drafting, and instruments for laboratory work and scientific research (except optical instruments--Industry 3831). Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, dental instruments and equipment in Industry 3843; mechanical measuring and controlling instruments in Industry 3821; machinists' precision measuring tools in Industry 3545; instruments for indicating, measuring, and recording electrical quantities and characteristics in Industry 3611; Watches and clocks in Industry 3871; measuring and dispensing pumps in Industry 3586. For a detailed list of products of Industry 3811, refer to table 6A, product codes 3811111 to 3811289.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

This table shows, in addition to the composition of the new Industry 3811, comparable data for that portion of old Industry 3576, Scales and Balances, which became part of new Industry 3811.

Laboratory precision balances formerly classified in Industry 3576, Scales and Balances; and laboratory furniture, including wood and metal cabinets and cases, and other laboratory furniture such as tables, stools, reagent shelves, etc., formerly classified in Industry 2532, Professional Furniture, are now included in Industry 3811, Scientific Instruments.

Value of shipments and other receipts of the Scientific Instruments Industry in 1958 totaled \$1 billion. This included shipments of scientific instruments (primary products), valued at \$691 million, shipments of other products (secondary products) valued at \$141 million, and miscellaneous receipts (mainly receipts for research and development) of \$168 million.

This industry's shipments of scientific instruments (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of test equipment for testing electrical, radio and communication circuits and motors, \$19 million; other aircraft parts and auxiliary equipment, \$19 million; aircraft engine instruments, except flight, \$19 million; and industrial process instruments, \$5 million.

While the primary products of the industry include aircraft flight, nautical, and navigational instruments and automatic pilots; and other engineering, laboratory, and scientific instruments, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 68 percent of the total industry shipments are represented by plants specializing in Aircraft flight, nautical, and navigational instruments and automatic pilots; and 32 percent in Other engineering, laboratory, and scientific instruments.



Industry 3811 shipments of scientific instruments (primary products) in 1958 represented 74 percent (coverage ratio) of these products valued at \$932 million shipped by all industries. Other industries shipping scientific instruments (primary products) consisted mainly of Industry 3611, Electric Measuring Instruments, \$15 million; Industry 3662, Radio, TV Communication Equipment, \$10 million; and Industry 3821 Mechanical Measuring Devices, \$11 million.

#### 3821—Mechanical Measuring and Controlling Instruments, Except Automatic Temperature Controls

This industry comprises establishments primarily engaged in manufacturing industrial process instruments, for indicating, recording, measuring and controlling temperature (except automatic temperature controls—Industry 3822), pressure and vacuum, fluid flow and liquid level, mechanical motion, rotation, humidity, density, acidity, alkalinity and combustion; dial pressure gauges; physical property testing apparatus such as hardness, tension, compression, torsion, ductility, elasticity testing apparatus. For a detailed list of products of Industry 3821, refer to table 6A, product codes 3821111 to 3821671.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

This table shows, in addition to the composition of new Industry 3821, comparable data for that portion of old Industry 3571, Computing and Related Machines, which became part of new Industry 3821.

In addition, automatic temperature controls, formerly classified in this industry, are now considered primary to Industry 3822, Automatic Temperature Controls; and revolution counters, formerly classified in Industry 3571, Computing and Related Machines, are included in Industry 3821, Mechanical Measuring Devices.

Value of shipments and other receipts of the Mechanical Measuring Devices Industry in 1958 totaled \$727 million. This included shipments of mechanical measuring devices (primary products), valued at \$579 million, shipments of other products (secondary products) valued at \$93 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$55 million.

This industry's shipments of mechanical measuring devices (primary products) in 1958 represented 86 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of metal valves for piping systems (except plumbing and heating valves), \$11 million; test equipment for testing electrical, radio and communication circuits and motors, \$6 million; other electrical measuring instruments \$6 million; other engineering, laboratory and scientific instruments, \$6 million; and automatic temperature controls, \$6 million.

While the primary products of the industry include aircraft engine instruments, except flight; integrating meters, nonelectrical type; industrial process instruments; motor

vehicle instruments, except electric, and other mechanical measuring and controlling instruments, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 3 percent of the total industry shipments are represented by plants specializing in 38111, Aircraft engine instruments, except flight; 18 percent in 38212, Integrating meters, nonelectrical type; 63 percent in 38213, Industrial process instruments; 3 percent in 38214, Motor vehicle instruments, except electric; and 13 percent in 38216, Other mechanical measuring and controlling instruments.

Industry 3821 shipments of mechanical measuring devices (primary products) in 1958 represented 76 percent (coverage ratio) of these products valued at \$761 million shipped by all industries. Other industries shipping mechanical measuring devices (primary products) consisted mainly of Industry 3494, Valves and Pipe Fittings, \$12 million; and Industry 3811, Scientific Instruments, \$23 million.

#### 3822—Automatic Temperature Controls

This industry comprises establishments primarily engaged in manufacturing automatic temperature controls activated by pressure, temperature, level, flow, time, or humidity (including pneumatic controls) of the type principally used as components of household apparatus. Establishments primarily engaged in manufacturing industrial electric controls are classified in Industry 3622. For a detailed list of products of Industry 3822, refer to table 6A, product code 3822011.

Both the code number and content for this industry were changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

This table shows, in addition to the composition of new Industry 3822, comparable data for that portion of old Industry 3821, Mechanical Measuring Instruments, which became new Industry 3822, Automatic temperature controls.

Value of shipments and other receipts of the Automatic Temperature Controls Industry in 1958 totaled \$359 million. This included shipments of automatic temperature controls (primary products), valued at \$302 million, shipments of other products (secondary products) valued at \$40 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$17 million.

This industry's shipments of automatic temperature controls (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products of over \$2 million shipped by this industry in 1958 are indicated in a footnote to table 5B. Exact values are withheld, however, to avoid disclosing individual company figures.

Industry 3822 shipments of automatic temperature controls (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$320 million shipped by all industries. Other industries shipping automatic temperature controls (primary products) consisted mainly of Industry 3821, Mechanical Measuring Devices, \$6 million.



3831—Optical Instruments and Lenses

This industry comprises establishments primarily engaged in the production of optical lenses and prisms, and in manufacturing optical instruments such as microscopes, telescopes, field and opera glasses; and optical measuring and testing instruments such as refractometers, spectrometers, spectroscopes, colorimeters, polariscopes. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in Industry 3851; and those engaged in manufacturing sighting and fire control instruments, but not engaged in manufacturing optical components, in Industry 1941. For a detailed list of products of Industry 3831, refer to table 6A, product codes 3831011 to 3831098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Optical Instruments and Lenses Industry in 1958 totaled \$103 million. This included shipments of optical instruments and lenses (primary products), valued at \$76 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$19 million.

This industry's shipments of optical instruments and lenses (primary products) in 1958 represented 90 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent. Secondary products of over \$2 million shipped by this industry in 1958 are indicated in a footnote to table 5B. Exact values, however, are withheld to avoid disclosing individual company figures.

Industry 3831 shipments of optical instruments and lenses (primary products) in 1958 represented 66 percent (coverage ratio) of these products valued at \$115 million shipped by all industries. In 1954, the coverage ratio was 59 percent. Other industries shipping over \$2 million of optical instruments and lenses (primary products) are indicated in a footnote to table 5B. Exact values, however, are withheld to avoid disclosing individual company figures.

3841—Surgical and Medical Instruments and Apparatus

This industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842; and electrotherapeutic, electromedical, and X-ray apparatus in Industry 3693. For a detailed list of products of Industry 3841, refer to table 6A, product codes 3841012 to 3841095.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of new Industry 3841, comparable data for that portion of old Industry 2532, Professional Furniture, which became part of new Industry 3841.

Operating room furniture and other hospital furniture, formerly classified in Industry 2532, Professional Furni-

ture, are now included in Industry 3841, Surgical and Medical Instruments.

Value of shipments and other receipts of the Surgical and Medical Instruments Industry in 1958 totaled \$130 million. This included shipments of surgical and medical instruments (primary products), valued at \$99 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$10 million.

This industry's shipments of surgical and medical instruments (primary products) in 1958 represented 83 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of other engineering, laboratory and scientific instruments, \$3 million; and surgical, orthopedic and prosthetic appliances and supplies, \$6 million.

Industry 3841 shipments of surgical and medical instruments (primary products) in 1958 represented 76 percent (coverage ratio) of these products valued at \$131 million shipped by all industries. Other industries shipping surgical and medical instruments (primary products) consisted mainly of Industry 3842, Surgical Appliances and Supplies, \$4 million.

3842—Orthopedic, Prosthetic and Surgical Appliances and Supplies

This industry comprises establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports, and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841. Establishments primarily engaged in manufacturing appliances and in the personal fitting to the individual prescription of a physician are classified in trade industries. For a detailed list of products of Industry 3842, refer to table 6A, product codes 3842111 to 3842411.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A.

This table shows, in addition to the composition of the new Industry 3842, comparable data for that portion of old Industry 3699, Electrical Products, N.E.C., which became part of new Industry 3842.

In addition, sanitary napkins and tampons, formerly classified in this industry, are now considered primary to Industry 2649, Paper and Board Products, N.E.C., and surgical corsets, formerly classified in Industry 2342, Corsets and Allied Garments; and electrical hearing aids, formerly classified in Industry 3699, Electrical Products, N.E.C., are included in Industry 3842, Surgical Appliances and Supplies.

Value of shipments and other receipts of the Surgical Appliances and Supplies Industry in 1958 totaled \$462 million. This included shipments of surgical appliances and supplies (primary products) valued at \$326 million, shipments of other products (secondary products) valued at



\$64 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$72 million.

This industry's shipments of surgical appliances and supplies (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of fabricated textile products, n.e.c., \$7 million, and surgical and medical instruments and apparatus, \$4 million.

While the primary products of the industry include surgical, orthopedic, and prosthetic appliances, and supplies; personal industrial safety devices; and electrical hearing aids, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 75 percent of the total industry shipments are represented by plants specializing in surgical, orthopedic, and prosthetic appliances and supplies; 15 percent in personal industrial safety devices; and 10 percent in electrical hearing aids.

Industry 3842 shipments of surgical appliances and supplies (primary products) in 1958 represented 90 percent (coverage ratio) of the products valued at \$362 million shipped by all industries. Other industries shipping surgical appliances and supplies (primary products) consisted mainly of Industry 3841, Surgical and Medical Instruments, \$6 million.

#### 3843--Dental Equipment and Supplies

This industry comprises establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays and other dental restorations on specifications from dentists are classified in service industries. For a detailed list of products of Industry 3843, refer to table 6A, product codes 3843011 to 3843098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Dental Equipment and Supplies Industry in 1958 totaled \$116 million. This included shipments of dental equipment and supplies (primary products) valued at \$102 million, shipments of other products (secondary products) valued at \$5 mil-

lion, and miscellaneous receipts (mainly contract work on materials owned by others) of \$9 million.

This industry's shipments of dental equipment and supplies (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was the same.

Industry 3843 shipments of dental equipment and supplies (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$111 million shipped by all industries. In 1954, the coverage ratio was 94 percent. Other industries shipping dental equipment and supplies (primary products) consisted mainly of Industry 3842, Surgical Appliances and Supplies, over \$2 million.

#### 3851--Ophthalmic Goods

This industry comprises establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing slit lamps are classified in Industry 3841, and molded glass blanks in Industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade industries. For a detailed list of products of Industry 3851, refer to table 6A, product codes 3851012 to 3851098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Ophthalmic Goods Industry in 1958 totaled \$194 million. This included shipments of ophthalmic goods (primary products) valued at \$165 million, shipments of other products (secondary products) valued at \$24 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

This industry's shipments of ophthalmic goods (primary products) in 1958 represented 87 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 83 percent. Secondary products of over \$2 million shipped by this industry in 1958 are indicated in a footnote to table 5B; however, the exact values are withheld to avoid disclosing individual company figures.

Industry 3851 shipments of ophthalmic goods (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$168 million shipped by all industries. In 1954, the coverage ratio was 94 percent.

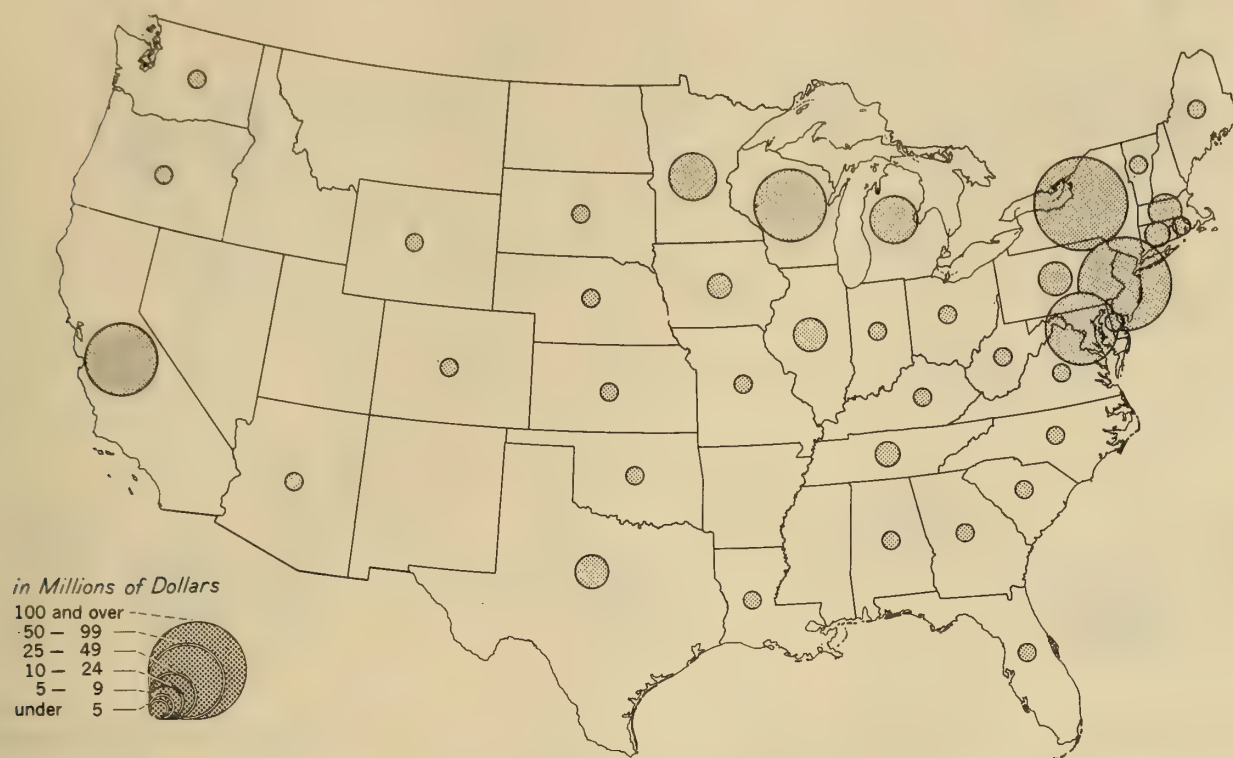
The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## ENGINEERING, LABORATORY, AND SCIENTIFIC AND RESEARCH

## INSTRUMENTS AND ASSOCIATED EQUIPMENT: SIC 381

Value Added by Manufacture by State: 1958

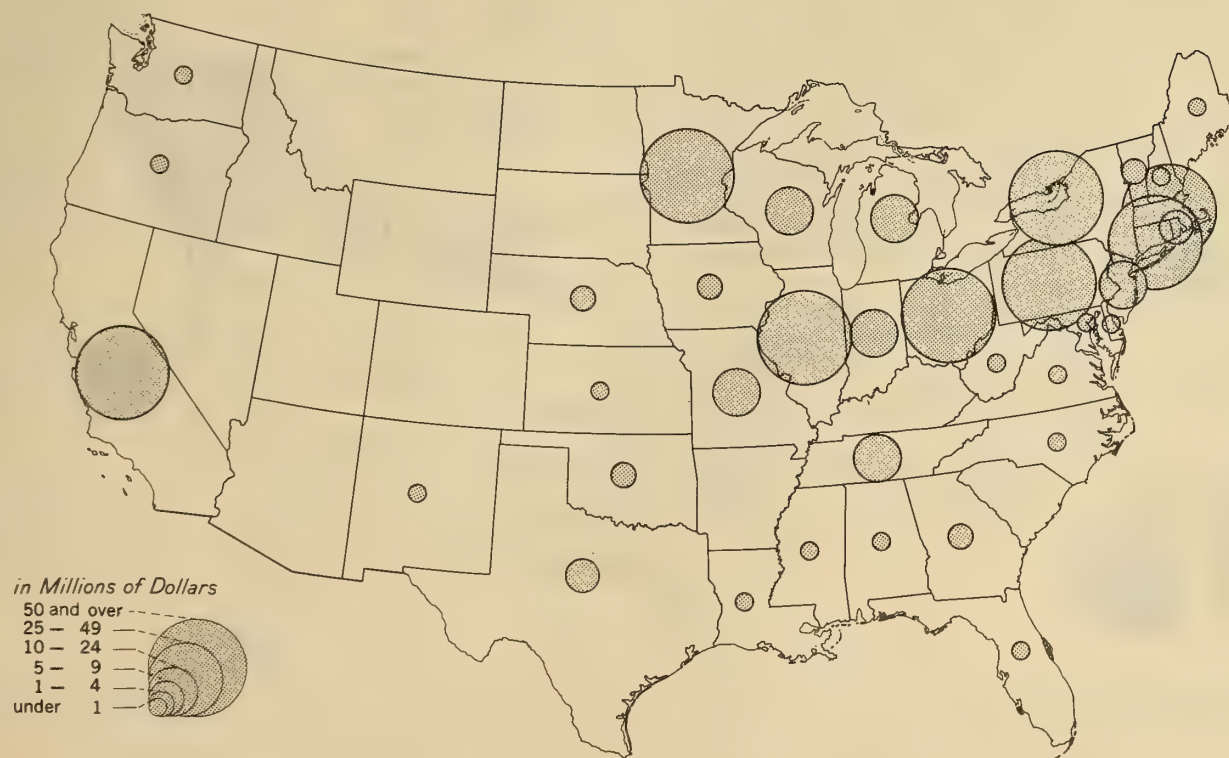


Includes only Industry 3811. See Table 2.

Bureau of the Census M-58-D381

INSTRUMENTS FOR MEASURING, CONTROLLING, AND  
INDICATING PHYSICAL CHARACTERISTICS: SIC 382

Value Added by Manufacture by State: 1958



Includes Industries 3821 and 3822. See Table 2.

Bureau of the Census M-58-D382

**INSTRUMENTS AND LENSES: SIC 383**

Value Added by Manufacture by State: 1958

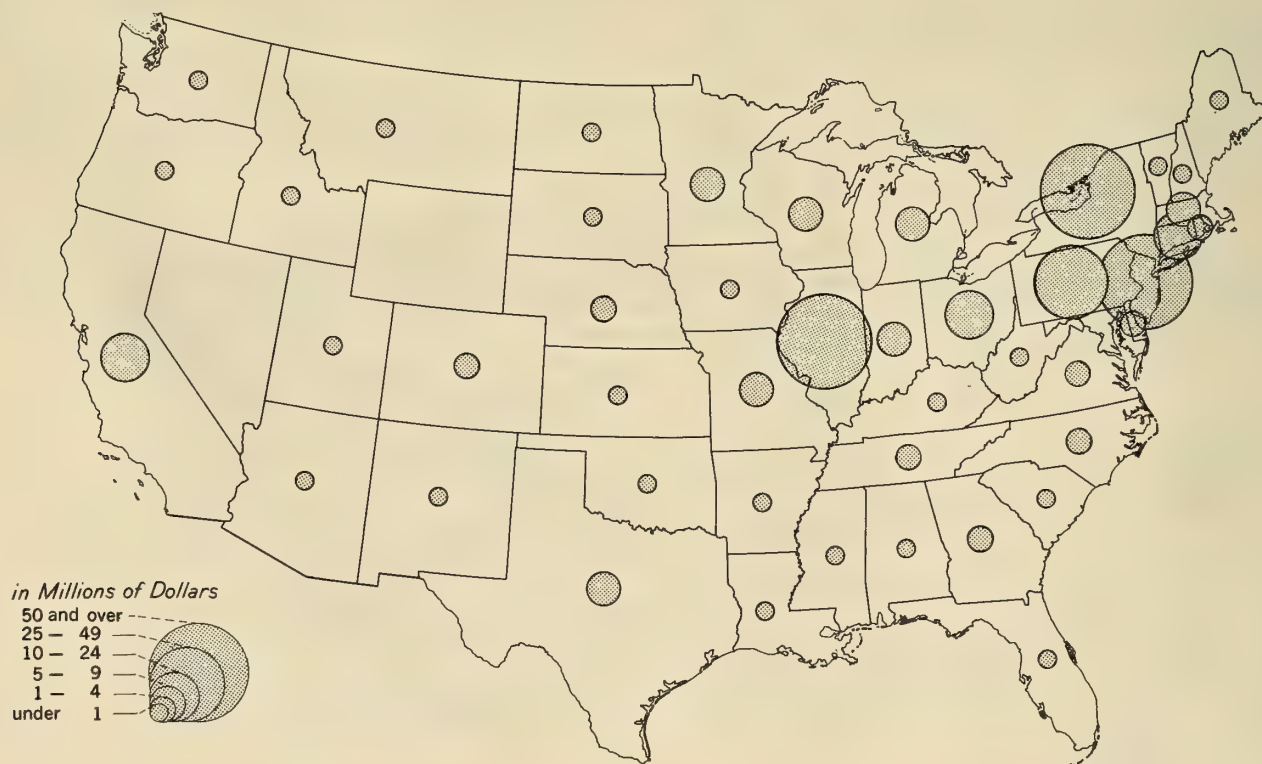


Includes only Industry 3831. See Table 2.

Bureau of the Census M-58-D383

**SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES: SIC 384**

Value Added by Manufacture by State: 1958



Includes Industries 3841, 3842 and 3843. See Table 2.

Bureau of the Census M-58-D384



## OPHTHALMIC GOODS: SIC 385

Value Added by Manufacture by State: 1958



Includes only Industry 3851. See Table 2.

Bureau of the Census M-58-D385

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Special- ization ratio <sup>6</sup> (per- cent)	Cov- erage <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3811	Scientific instruments:														
	1958 (new).....	542	567	206	67,456	399,165	43,146	87,192	222,481	606,530	403,752	1,000,235	25,593	83	74
	1958 (old) <sup>8</sup> .....	(NA)	493	175	63,465	381,248	40,250	81,335	211,269	576,059	378,254	945,149	24,939	(NA)	(NA)
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	58,913	339,987	38,343	82,740	200,507	505,709	295,778	761,248	23,769	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	52,321	291,909	36,040	75,046	177,266	440,340	239,666	637,954	19,733	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	46,095	236,965	31,460	65,631	145,050	343,877	193,461	516,417	10,080	(NA)	(NA)
	1954.....	(NA)	370	131	45,315	217,831	30,797	64,264	134,801	340,146	224,203	580,916	8,615	77	64
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	31,394	146,693	22,418	48,711	100,026	238,702	136,962	375,664	8,176	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	41,494	202,587	27,615	60,493	124,627	277,293	211,032	488,325	8,751	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	36,724	169,528	23,952	51,925	102,447	180,579	142,588	323,167	14,690	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	25,592	104,447	16,425	34,392	60,006	128,951	59,923	188,874	6,594	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	15,357	54,846	10,706	21,295	34,861	77,677	36,213	113,890	2,285	(NA)	(NA)
	1947.....	(NA)	215	93	18,419	56,015	13,526	30,099	37,738	75,922	41,390	117,312	4,489	81	82
	1939 <sup>10</sup> .....	(NA)	125	(NA)	(NA)	(NA)	6,529	(NA)	10,067	30,627	11,624	42,251	(NA)	(NA)	(NA)
3821	Mechanical measuring devices:														
	1958.....	586	627	229	50,049	258,488	32,123	62,982	144,873	457,126	262,571	726,823	18,215	86	76
3822	Automatic temperature controls:														
	1958.....	71	83	44	25,513	128,974	18,049	35,599	81,083	258,969	103,775	359,430	5,989	88	94
3831 (old SIC 3831)	Optical instruments and lenses:														
	1958.....	222	224	58	7,184	37,586	5,141	10,485	23,459	60,387	42,677	102,966	3,438	90	66
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	*8,717	*44,873	*6,182	*13,219	*26,690	*81,150	*37,344	*111,343	(S)	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	*7,564	*37,987	*5,628	*11,593	*23,716	*70,039	*26,698	*94,692	*2,865	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	*8,115	*36,143	*6,139	*12,629	*23,759	*60,052	*23,217	*87,002	(S)	(NA)	(NA)
	1954.....	202	*204	*60	*8,749	*38,352	*6,683	*13,426	*25,624	*55,371	*24,840	*83,339	*3,816	91	59
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	16,419	73,732	12,494	25,472	49,483	112,699	37,531	150,230	6,023	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	13,552	58,017	10,599	22,091	42,130	84,172	38,523	122,695	2,194	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	12,432	50,610	9,699	19,996	35,997	66,944	27,899	94,843	2,779	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	9,077	47,040	6,769	18,317	23,638	47,890	16,496	64,386	2,532	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,167	25,422	5,327	10,957	17,131	31,856	11,626	43,482	1,243	(NA)	(NA)
	1947.....	(NA)	115	35	8,478	24,737	6,682	10,820	17,965	34,090	11,254	45,344	1,520	93	75
	1939 <sup>10</sup> .....	(NA)	31	(NA)	3,016	4,684	2,209	(NA)	3,266	7,159	1,531	8,690	(NA)	(NA)	(NA)
3841	Surgical and medical instruments:														
	1958.....	223	231	88	10,293	44,878	8,061	16,162	31,039	85,153	48,944	130,477	2,812	83	76
3842	Surgical appliances and supplies:														
	1958.....	553	590	161	24,179	114,867	16,277	31,460	62,122	257,640	200,377	461,846	9,110	84	90
3843 (old SIC 3843)	Dental equipment and supplies:														
	1958.....	240	249	55	7,242	34,775	5,227	10,188	21,077	71,574	44,940	115,667	1,517	95	92
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,796	30,391	4,746	9,688	19,872	70,685	43,100	111,316	1,426	96	93
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,802	28,894	4,894	9,781	18,930	67,200	38,103	102,869	1,544	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,917	28,039	4,927	9,984	18,421	56,489	33,722	86,844	1,442	(NA)	(NA)
	1954.....	193	197	49	7,103	28,206	5,107	10,366	17,974	53,290	30,706	79,171	1,434	95	94
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,988	30,678	6,067	11,996	19,248	52,105	30,293	82,398	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	8,266	29,295	6,311	12,544	18,399	47,229	31,252	78,481	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,117	23,482	5,230	10,136	14,297	42,980	27,259	70,239	(NA)	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	7,205	21,869	5,547	10,635	13,767	40,588	25,808	66,396	(NA)	(NA)	(NA)
	1947.....	(NA)	213	50	9,074	25,625	7,132	14,247	17,304	42,925	28,177	71,102	2,386	97	94
	1939.....	(NA)	(NA)	(NA)	5,708	8,499	4,245	(NA)	4,825	18,289	13,258	31,547	(NA)	(NA)	(NA)
	1937 <sup>10</sup> .....	(NA)	(NA)	(NA)	5,626	7,952	4,574	(NA)	5,347	18,162	12,717	30,879	(NA)	(NA)	(NA)
3851 (old SIC 3851)	Ophthalmic goods:														
	1958.....	226	246	104	18,223	71,465	15,272	29,988	53,525	136,696	62,010	194,446	5,367	87	98
	1954.....	223	238	101	18,464	64,536	15,355	29,960	48,332	107,059	48,306	159,061	5,042	83	94
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,620	70,966	17,047	33,666	54,182	116,436	56,031	172,467	3,974	(NA)	(NA)
	1952 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,414	70,318	17,182	(NA)	53,467	117,161	56,175	173,336	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,261	66,620	17,367	35,949	52,748	107,022	50,283	157,305	3,645	(NA)	(NA)
	1949 <sup>9</sup> .....	(NA)	(NA)	(NA)	21,904	60,189	18,337	35,274	44,165	98,386	55,263	153,649	(S)	(NA)	(NA)
	1947.....	175	184	97	22,562	57,112	19,847	39,441	46,507	87,205	33,948	121,153	(NA)	86	97
	1939.....	(NA)	91	(NA)	13,497	19,271	10,252	(NA)	12,246	30,745	14,210	44,955	(NA)	(NA)	(NA)
	1937 <sup>10</sup> .....	(NA)	79	(NA)	(NA)	(NA)	10,906	(NA)	12,968	30,058	13,462	43,520	(NA)	(NA)	(NA)

See footnotes on next page.



Footnotes for Table 1--38A

\* Revised. †Revised

NA Not available.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3811	356,713	3841	41,656
3821	(NA)	3842	(NA)
3822	(NA)	3843	51,154
3831	86,380	3851	110,452

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3811	389,405	208,157	3841	44,690	18,660
3821	240,346	(NA)	3842	161,561	(NA)
3822	95,214	(NA)	3843	40,170	25,326
3831	30,214	29,671	3851	59,902	46,666

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3811	982,380	557,903	3841	124,581	59,420
3821	696,679	(NA)	3842	401,077	(NA)
3822	347,827	(NA)	3843	108,732	74,813
3831	88,955	115,459	3851	191,459	156,817

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>No comparable data are available for prior years.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3811—Scientific instruments.....	567	206	67,456	606,530	xxx	xxx	xxx	xxx
Old Industry 3811—Scientific instruments.....	493	175	63,465	576,059	493	175	63,465	576,059
Old Industry 3576—Scales and balances.....	7	6	386	2,883	79	38	5,733	52,008
All other industries.....	67	25	3,605	27,588	xxx	xxx	xxx	xxx
New Industry 3821—Mechanical measuring devices.....	627	229	50,049	457,126	xxx	xxx	xxx	xxx
Old Industry 3821—Mechanical measuring instruments.....	618	222	48,072	441,340	705	268	74,021	705,730
Old Industry 3571—Computing and related machines.....	7	5	1,727	12,617	140	74	82,442	590,897
All other industries.....	2	2	250	3,169	xxx	xxx	xxx	xxx
New Industry 3822—Automatic temperature controls.....	83	44	25,513	258,969	xxx	xxx	xxx	xxx
Old Industry 3821—Mechanical measuring instruments.....	83	44	25,513	258,969	705	268	74,021	705,730
New Industry 3841—Surgical and medical instruments.....	231	88	10,293	85,153	xxx	xxx	xxx	xxx
Old Industry 3841—Surgical and medical instruments.....	206	66	8,714	72,647	206	66	8,714	72,647
Old Industry 2532—Professional furniture.....	25	22	1,579	12,506	94	50	7,451	57,786
New Industry 3842—Surgical appliances and supplies.....	590	161	24,179	257,640	xxx	xxx	xxx	xxx
Old Industry 3842—Surgical appliances and supplies.....	561	144	21,826	230,141	571	153	25,071	279,700
Old Industry 3699—Electrical products, nec.....	25	14	1,984	25,714	279	110	11,911	97,214
All other industries.....	4	3	369	1,785	xxx	xxx	xxx	xxx

<sup>r</sup>Revised.

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3811	Scientific instruments, total.....	567	206	67,456	399,165	43,146	87,192	222,481	606,530	1,000,235	25,593	(3,4)	(3,4)	(3,4)
	New England.....	53	20	3,974	19,307	2,659	5,285	12,128	31,338	46,783	2,850	(3,4)	(3,4)	(3,4)
	Massachusetts...	29	12	2,519	13,694	1,837	3,914	8,996	21,398	32,366	2,600	(3,4)	(3,4)	(3,4)
	Connecticut.....	18	6	1,291	4,884	679	1,087	2,569	8,514	12,399	(2)	(3,4)	(3,4)	(3,4)
	Middle Atlantic...	189	63	31,567	193,667	20,209	39,809	109,108	286,320	507,967	6,770	(3,4)	(3,4)	(3,4)
	New York.....	99	28	15,687	99,830	9,559	18,780	52,088	155,023	300,441	2,610	(3,4)	(3,4)	(3,4)
	New Jersey.....	46	18	13,866	84,790	9,327	18,411	51,409	114,877	179,962	3,626	(3,4)	(3,4)	(3,4)
	Pennsylvania....	44	17	2,014	9,047	1,323	2,618	5,611	16,420	27,564	534	(3,4)	(3,4)	(3,4)
	North Central....	119	48	20,426	122,564	12,513	26,167	65,144	189,968	297,594	8,312	(3,4)	(3,4)	(3,4)
	Ohio.....	21	7	452	2,176	304	578	1,163	4,221	7,000	(2)	(3,4)	(3,4)	(3,4)
	Illinois.....	36	17	2,229	12,231	1,590	3,269	7,641	22,212	33,334	740	(3,4)	(3,4)	(3,4)
	Michigan.....	21	6	4,230	25,472	3,187	7,038	18,333	44,324	64,821	(2)	(3,4)	(3,4)	(3,4)
	South.....	86	33	5,834	29,662	3,926	8,245	16,874	40,499	64,517	5,670	(3,4)	(3,4)	(3,4)
	Maryland.....	16	6	1,489	7,613	1,012	2,111	4,721	10,961	18,099	2,102	(3,4)	(3,4)	(3,4)
	Virginia.....	5	3	206	887	173	352	703	1,414	1,943	(2)	(3,4)	(3,4)	(3,4)
	Florida.....	6	2	239	880	214	439	739	690	1,400	(2)	(3,4)	(3,4)	(3,4)
	Texas.....	36	13	2,466	12,840	1,565	3,246	6,842	17,263	26,656	1,666	(3,4)	(3,4)	(3,4)
	Mountain.....	15	3	534	3,159	386	749	1,781	5,952	8,103	(2)	(3,4)	(3,4)	(3,4)
	Pacific.....	105	39	5,112	30,806	3,453	6,937	17,446	52,453	75,271	1,785	(3,4)	(3,4)	(3,4)
	California.....	100	37	5,026	30,446	3,386	6,831	17,171	51,773	74,180	1,748	(3,4)	(3,4)	(3,4)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3821	Mechanical measuring devices, total.	627	229	50,049	258,488	32,123	62,982	144,873	457,126	726,823	18,215	(3)	(3)	(3)
	New England.....	77	36	12,527	63,644	7,618	15,018	33,926	112,247	174,485	4,359	(3)	(3)	(3)
	Middle Atlantic...	217	78	20,585	107,418	13,614	26,235	62,522	186,159	289,773	8,671	(3)	(3)	(3)
	North Central.....	162	66	11,728	59,778	7,170	14,266	31,043	106,325	178,798	3,000	(3)	(3)	(3)
	Ohio.....	36	22	3,998	19,988	2,216	4,545	8,993	33,117	59,938	1,102	(3)	(3)	(3)
	Illinois.....	57	23	4,144	20,931	2,620	5,085	11,289	41,399	63,794	1,031	(3)	(3)	(3)
	South and West....	171	49	5,209	27,648	3,721	7,463	17,382	52,395	83,769	2,185	(3)	(3)	(3)
	Maryland.....	9	2	104	586	77	145	355	967	1,499	(2)	(3)	(3)	(3)
	Texas.....	26	7	459	2,124	333	657	1,318	6,521	11,673	(2)	(3)	(3)	(3)
3822	Automatic temperature controls, total.....	83	44	25,513	128,974	18,049	35,599	81,083	258,969	359,430	5,989	(3)	(3)	(3)
	New England.....	7	4	2,223	10,593	1,598	3,197	6,240	16,406	23,086	(2)	(3)	(3)	(3)
	Middle Atlantic...	19	8	2,280	11,944	1,686	3,275	8,047	17,831	29,197	585	(3)	(3)	(3)
	North Central.....	40	22	15,467	77,385	10,401	20,436	45,349	165,729	227,131	3,349	(3)	(3)	(3)
	Ohio.....	13	9	2,010	9,933	1,535	3,005	6,725	17,443	24,045	(2)	(3)	(3)	(3)
	Illinois.....	10	4	3,634	17,567	2,213	4,160	9,575	47,574	61,458	797	(3)	(3)	(3)
	South and West....	17	10	5,543	29,052	4,364	8,691	21,447	59,003	80,016	1,732	(3)	(3)	(3)
3831	Optical instruments and lenses, total..	224	58	7,184	37,586	5,141	10,485	23,459	60,387	102,966	3,438	8,749	57,905	8,478
	New England.....	28	12	2,138	12,534	1,260	2,653	6,126	19,610	34,651	1,726	1,501	11,871	596
	Middle Atlantic...	86	19	3,010	15,066	2,342	4,821	10,620	22,810	42,229	897	4,064	24,569	6,605
	New York.....	59	14	2,599	12,942	1,993	3,982	8,870	20,451	38,144	839	3,703	22,808	6,342
	East North Central	40	10	889	4,365	668	1,312	2,939	6,753	9,272	(2)	(5)	(5)	(5)
	Illinois.....	20	7	721	3,592	543	1,078	2,418	5,402	7,244	(2)	909	5,189	782
	West North Central	12	2	114	404	86	166	289	763	1,249	(2)	(5)	(5)	(5)
	South.....	14	4	325	1,373	265	518	986	4,371	5,599	(2)	521	4,116	(D)
	West.....	44	11	708	3,844	520	1,015	2,499	6,080	9,966	(2)	(5)	(5)	(5)
	California.....	39	10	660	3,598	490	948	2,336	5,738	8,955	(2)	1,372	9,728	185
3841	Surgical and medical instruments, total..	231	88	10,293	44,878	8,061	16,162	31,039	85,153	130,477	2,812	(3)	(3)	(3)
	New England.....	30	17	1,799	7,248	1,498	3,061	5,280	12,067	17,584	(2)	(3)	(3)	(3)
	Massachusetts...	16	12	698	2,888	527	1,034	1,780	5,253	8,296	(2)	(3)	(3)	(3)
	Middle Atlantic...	90	33	4,711	20,630	3,832	7,802	15,536	39,473	58,025	979	(3)	(3)	(3)
	New York.....	62	23	2,251	10,477	1,795	3,757	7,200	16,188	25,432	588	(3)	(3)	(3)
	East North Central	44	23	1,310	5,950	979	1,920	3,776	13,705	21,000	563	(3)	(3)	(3)
	Ohio.....	12	6	389	1,805	294	590	1,155	3,170	5,282	(2)	(3)	(3)	(3)
	Illinois.....	19	9	343	1,540	275	517	1,014	2,703	3,808	(2)	(3)	(3)	(3)
	West North Central	16	5	1,109	4,891	847	1,651	3,272	8,045	13,918	(2)	(3)	(3)	(3)
	South Atlantic....	6	2	78	233	64	130	170	458	754	(2)	(3)	(3)	(3)
	East South Central	7	2	401	1,319	287	590	955	2,984	3,914	(2)	(3)	(3)	(3)
	West South Central	5	...	20	76	17	30	62	114	210	(2)	(3)	(3)	(3)
	Mountain.....	5	...	20	86	17	28	75	113	351	(2)	(3)	(3)	(3)
	Pacific.....	28	6	845	4,445	520	950	1,913	8,194	14,721	(2)	(3)	(3)	(3)
3842	Surgical appliances and supplies, total	590	161	24,179	114,867	16,277	31,460	62,122	257,640	461,846	9,110	(3)	(3)	(3)
	New England.....	57	22	2,790	10,481	2,076	3,969	6,671	19,003	35,862	706	(3)	(3)	(3)
	Connecticut.....	13	11	1,885	7,384	1,357	2,637	4,513	12,891	23,881	558	(3)	(3)	(3)
	Middle Atlantic...	154	47	9,646	53,350	5,686	11,386	24,089	113,821	196,788	4,848	(3)	(3)	(3)
	New York.....	94	22	2,665	11,788	2,049	4,086	7,574	32,978	53,630	755	(3)	(3)	(3)
	East North Central	155	52	7,716	35,132	5,529	10,506	21,782	90,633	166,306	1,896	(3)	(3)	(3)
	Ohio.....	50	17	1,394	5,481	1,016	1,948	3,158	9,250	16,580	(2)	(3)	(3)	(3)
	Illinois.....	57	21	4,675	22,865	3,269	6,141	14,178	67,521	123,577	1,430	(3)	(3)	(3)
	Michigan.....	16	5	632	2,465	491	931	1,631	4,021	8,113	(2)	(3)	(3)	(3)
	West North Central	43	14	1,287	5,254	849	1,612	2,670	9,467	18,087	(2)	(3)	(3)	(3)
	Missouri.....	15	8	636	2,163	492	929	1,437	3,784	8,078	(2)	(3)	(3)	(3)
	South and West....	181	26	2,740	10,650	2,137	3,987	6,910	24,716	44,803	1,268	(3)	(3)	(3)
	California.....	74	11	967	4,701	701	1,309	2,790	8,999	16,832	(2)	(3)	(3)	(3)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3843	Dental equipment and supplies,													
	total.....	249	55	7,242	34,775	5,227	10,188	21,077	71,574	115,667	1,517	7,103	51,154	9,074
	New England.....	7	3	351	2,610	388	811	1,581	4,429	7,919	(2)	312	1,727	(D)
	Middle Atlantic...	97	25	4,077	19,583	3,101	6,021	12,796	43,084	68,705	896	4,362	33,231	(D)
	New York.....	64	13	2,317	12,629	1,636	3,198	7,818	26,251	45,361	596	2,440	18,793	3,168
	East North Central	52	16	1,514	7,577	1,039	2,023	4,280	13,031	20,082	(2)	1,613	10,218	2,149
	Ohio.....	14	6	596	2,841	421	802	1,764	4,724	7,363	(2)	666	4,282	1,018
	Illinois.....	28	9	688	3,458	469	914	1,915	6,204	9,347	(2)	657	3,672	791
	West North Central	13	1	102	428	58	115	218	964	2,194	(2)	74	570	84
	South.....	20	5	530	2,272	344	690	1,079	4,948	7,466	(2)	435	2,618	(6)
	Mountain.....	13	2	188	885	117	192	345	1,990	3,986	(2)	(5)	(5)	(5)
	Pacific.....	47	3	280	1,420	180	336	778	3,128	5,315	(2)	(5)	(5)	(5)
3851	Ophthalmic goods,													
	total.....	246	104	18,223	71,465	15,272	29,988	53,525	136,696	194,446	5,367	18,464	110,452	22,562
	New England.....	32	21	4,681	16,863	4,203	8,147	13,249	41,824	55,650	1,662	4,586	32,416	6,201
	Rhode Island....	16	8	863	2,965	735	1,296	1,998	4,519	7,673	(2)	(5)	(5)	(5)
	Middle Atlantic...	124	54	9,872	42,127	7,957	15,738	31,035	74,126	106,534	2,504	10,814	63,284	12,654
	New York.....	88	40	8,190	35,317	6,684	13,225	26,552	60,417	83,836	2,093	9,027	53,527	10,584
	New Jersey.....	23	9	815	3,297	649	1,310	2,154	7,687	11,885	(2)	(5)	(5)	(5)
	Pennsylvania....	13	5	867	3,513	624	1,203	2,329	6,022	10,813	(2)	(5)	(5)	(5)
	East North Central	31	5	674	2,800	550	1,054	2,088	5,141	8,009	(2)	782	4,764	2,026
	Ohio.....	7	2	226	836	199	379	997	1,078	1,661	(2)	(5)	(5)	(5)
	Illinois.....	15	2	180	787	126	243	470	1,685	2,849	(2)	227	1,429	313
	West North Central	22	11	664	2,375	571	1,117	1,815	3,848	6,413	(2)	510	2,739	378
	Missouri.....	14	6	424	1,628	354	702	1,202	2,218	3,982	(2)	349	1,827	312
	South Atlantic....	15	6	1,823	5,429	1,581	3,200	4,104	8,616	13,088	624	(5)	(5)	(5)
	East South Central	3	1	64	201	59	111	154	300	517	(2)	(5)	(5)	(5)
	West South Central	6	2	251	907	197	355	555	1,591	2,386	(2)	(5)	(5)	(5)
	West.....	13	4	194	763	154	266	525	1,250	1,849	(2)	(5)	(5)	(5)
	California.....	10	4	163	675	126	221	447	1,075	1,547	(2)	(5)	(5)	(5)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3811, Scientific Instruments: Northeast—Maine, 1 (20-99); Vermont, 1 (1-19); Rhode Island, 4 (20-99); East North Central—Indiana, 12 (250-499); Wisconsin, 5 (6,501); West North Central—Minnesota, 3 (4,902); Iowa, 2 (1,000-2,499); Missouri, 14 (100-249); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 3 (100-249); South Atlantic—Delaware, 1 (20-99); West Virginia, 3 (100-249); North Carolina, 1 (100-249); South Carolina, 2 (1-19); Georgia, 1 (20-99); East South Central—Kentucky, 2 (20-99); Tennessee, 7 (500-999); Alabama, 2 (20-99); West South Central—Louisiana, 2 (20-99); Oklahoma, 2 (100-249); West—Wyoming, 2 (20-99); Colorado, 6 (100-249); Arizona, 6 (250-499); Utah, 1 (1-19); Pacific—Washington, 3 (20-99); Oregon, 2 (20-99);

SIC 3821, Mechanical Measuring Devices: Northeast—Maine, 1 (1-19); New Hampshire, 1 (1-19); Vermont, 3 (250-499); Massachusetts, 37 (5,000 and over); Rhode Island, 2 (1,000-2,499); Connecticut, 33 (5,000 and over); Middle Atlantic—New York, 126 (7,160); New Jersey, 44 (1,678); Pennsylvania, 47 (11,747); East North Central—Indiana, 11 (250-499); Michigan, 29 (1,000-2,499); Wisconsin, 12 (500-999); West North Central—Minnesota, 5 (1-19); Iowa, 5 (250-499); Missouri, 4 (1-19); Nebraska, 1 (100-249); Kansas, 2 (1-19); South Atlantic—Delaware, 1 (1-19); District of Columbia, 3 (20-99); Virginia, 2 (20-99); West Virginia, 1 (20-99); North Carolina, 1 (1-19); Georgia, 3 (250-499); Florida, 4 (1-19); East South Central—Tennessee, 4 (1-19); Alabama, 3 (1-19); Mississippi, 4 (20-99); West South Central—Louisiana, 1 (1-19); Oklahoma, 14 (250-499); Mountain—New Mexico, 3 (100-249); Arizona, 5 (1-19); Pacific—Washington, 5 (20-99); Oregon, 3 (20-99); California, 79 (3,450).

SIC 3822, Automatic Temperature Controls: Northeast—New Hampshire, 1 (20-99); Massachusetts, 5 (1,000-2,499); Connecticut, 1 (250-499); Middle Atlantic—New York, 8 (100-249); New Jersey, 5 (500-999); Pennsylvania, 6 (1,535); East North Central—Indiana, 3 (1,000-2,499); Michigan, 1 (1-19); Wisconsin, 4 (1,000-2,499); West North Central—Minnesota, 4 (5,857); Iowa, 1 (1-19); Missouri, 4 (500-999); South Atlantic—Florida, 2 (20-99); East South Central—Tennessee, 1 (1,000-2,499); Pacific—Oregon, 2 (20-99); California, 11 (4,222).

SIC 3831, Optical Instruments and Lenses: Northeast—Maine, 1 (1-19); New Hampshire, 1 (100-249); Massachusetts, 17 (500-999); Rhode Island, 3 (20-99); Connecticut, 6 (500-999); Middle Atlantic—New Jersey, 12 (20-99); Pennsylvania, 15 (250-499); North Central—Ohio, 8 (20-99); Indiana, 4 (1-19); Michigan, 1 (1-19); Wisconsin, 7 (20-99); West North Central—Minnesota, 7 (20-99); Iowa, 1 (1-19); Missouri, 4 (20-99); South Atlantic—Maryland, 2 (20-99); West Virginia, 2 (20-99); Georgia, 1 (1-19); Florida, 2 (20-99); East South Central—Kentucky, 1 (1-19); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (1-19); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 2 (100-249); Mountain—Idaho, 1 (1-19); Colorado, 1 (1-19); Pacific—Washington, 2 (20-99); Oregon, 1 (1-19).

SIC 3841, Surgical and Medical Instruments: Northeast—New Hampshire, 2 (20-99); Vermont, 1 (1-19); Rhode Island, 2 (20-99); Connecticut, 9 (1,029); Middle Atlantic—New Jersey, 16 (2,148); Pennsylvania, 12 (250-499); North Central—Indiana, 5 (100-249); Michigan, 5 (20-99); Wisconsin, 3 (250-499); West North Central—Minnesota, 3 (1-19); Iowa, 2 (1-19); Missouri, 8 (500-999); Nebraska, 2 (250-499); Kansas, 1 (1-19); South—Maryland, 2 (1-19); North Carolina, 1 (1-19); Georgia, 2 (20-99); Florida, 1 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 4 (250-499); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 4 (1-19); West—Colorado, 4 (1-19); Utah, 1 (1-19); Pacific—Washington, 2 (1-19); California, 26 (500-999).

SIC 3842, Surgical Appliances and Supplies: Northeast—Maine, 1 (20-99); New Hampshire, 4 (20-99); Massachusetts, 33 (500-999); Rhode Island, 6 (250-499); Middle Atlantic—New Jersey, 21 (4,066); Pennsylvania, 39 (2,915); North Central—Indiana, 14 (500-999); Wisconsin, 18 (250-499); West North Central—Minnesota, 16 (500-999); Iowa, 3 (1-19); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 5 (20-99); Kansas, 2 (1-19); South Atlantic—Maryland, 4 (20-99); District of Columbia, 5 (20-99); Virginia, 3 (20-99); West Virginia, 4 (100-249); North Carolina, 7 (500-999); South Carolina, 4 (100-249); Georgia, 5 (20-99); Florida, 12 (20-99); East South Central—Kentucky, 4 (100-249); Tennessee, 4 (20-99); Alabama, 4 (1-19); Mississippi, 2 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 3 (20-99); Oklahoma, 3 (1-19); Texas, 20 (100-249); Mountain—Idaho, 1 (1-19); Colorado, 5 (20-99); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 3 (1-19); Pacific—Washington, 6 (1-19); Oregon, 5 (20-99).



Footnotes for Table 2—38A

3843, Dental Equipment and Supplies: Northeast—Massachusetts, 4 (100-249); Connecticut, 3 (250-499); Middle Atlantic—New Jersey, 8 (100-249); Pennsylvania, 25 (1,646); North Central—Indiana, 2 (20-99); Michigan, 6 (100-249); Wisconsin, 2 (1-19); West North Central—Minnesota, 4 (20-99); Iowa, 3 (1-19); Missouri, 5 (20-99); Nebraska, 1 (1-19); South Atlantic—Delaware, 1 (250-499); Maryland, 2 (20-99); Virginia, 2 (100-249); North Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 3 (1-19); East South Central—Kentucky, 2 (20-99); Alabama, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 5 (20-99); West—Montana, 2 (1-19); Idaho, 1 (1-19); Colorado, 6 (100-249); New Mexico, 1 (1-19); Arizona, 1 (1-19); Utah, 2 (1-19); Pacific—Washington, 2 (20-99); Oregon, 2 (1-19); California, 43 (100-249).

SIC 3851, Ophthalmic Goods: Northeast—Massachusetts, 13 (3,566); Connecticut, 3 (250-499); North Central—Indiana, 2 (100-249); Michigan, 6 (20-99); Wisconsin, 1 (1-19); West North Central—Minnesota, 6 (100-249); Nebraska, 1 (1-19); Kansas, 1 (20-99); South—Maryland, 3 (250-499); Virginia, 2 (1,000-2,499); South Carolina, 3 (20-99); Georgia, 1 (1-19); Florida, 6 (250-499); East South Central—Kentucky, 1 (1-19); Tennessee, 1 (20-99); Alabama, 1 (1-19); West South Central—Louisiana, 2 (1-19); Texas, 4 (100-249); Mountain—Colorado, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (1-19).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).<sup>4</sup>See footnote 8 of table 1.<sup>5</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>6</sup>For 1947, figure for "All employees, number" was combined for South and West.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2A.—General Statistics by Regions and States on Old SIC System: 1958, 1954, and 1947

(For explanation of column captions see Introduction. For discussion of change in SIC see text)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted, (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3811	Scientific instruments, total <sup>2</sup> .....	493	175	63,465	381,248	40,250	81,335	211,269	576,059	945,149	24,939	45,315	340,146	18,419
	New England.....	50	21	4,139	20,394	2,813	5,599	12,960	33,643	49,020	2,910	3,559	26,785	585
	Massachusetts....	30	13	2,724	15,079	2,021	4,290	9,976	24,209	35,624	2,661	2,387	16,514	549
	Connecticut.....	16	6	1,270	4,661	664	1,053	2,476	8,108	11,591	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Middle Atlantic...	166	50	30,273	187,316	19,280	37,985	105,182	274,760	486,245	6,448	20,207	151,642	12,056
	New York.....	89	22	14,790	95,089	8,920	17,493	49,177	146,391	282,881	2,479	5,404	36,524	5,294
	New Jersey.....	40	15	13,614	83,659	9,155	18,085	50,764	112,776	177,315	3,548	12,321	94,034	5,959
	Pennsylvania.....	37	13	1,869	8,568	1,205	2,407	5,241	15,593	26,049	( <sup>3</sup> )	2,481	21,082	803
	North Central.....	96	38	18,229	112,230	10,963	23,021	58,835	171,831	265,448	8,019	15,350	129,632	3,000
	Ohio.....	19	6	422	2,035	281	531	1,070	4,042	6,521	( <sup>3</sup> )	312	1,790	219
	Illinois.....	32	15	2,079	11,562	1,464	3,034	7,199	21,284	31,904	719	2,118	14,104	2,256
	Michigan.....	16	4	3,355	20,970	2,594	5,829	15,635	36,230	50,675	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South.....	72	27	5,139	26,856	3,366	7,009	14,973	36,027	55,542	5,464	2,751	19,437	1,327
	Maryland.....	15	6	1,486	7,597	1,009	2,106	4,705	10,932	18,052	2,164	1,095	6,947	846
	Florida.....	6	2	239	880	214	439	739	690	1,400	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Texas.....	32	11	2,193	11,818	1,337	2,744	6,067	15,773	23,510	1,489	720	6,023	176
	Mountain.....	14	2	453	2,756	318	629	1,493	5,398	7,436	( <sup>3</sup> )	72	508	...
	Pacific.....	95	37	5,232	31,696	3,510	7,092	17,826	54,400	81,458	1,900	3,374	28,705	1,451
	California.....	91	36	5,177	31,416	3,467	7,013	17,613	53,868	80,684	1,880	3,154	27,261	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>2</sup>Revised

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3811, Scientific Instruments: Northeast—Maine, 1 (20-99); Rhode Island, 3 (20-99); East North Central—Indiana, 9 (250-499); Wisconsin, 3 (5,000 and over); West North Central—Minnesota, 3 (4,902); Iowa, 1 (1,000-2,499); Missouri, 8 (100-249); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 3 (100-249); South Atlantic—Delaware, 1 (20-99); Virginia, 4 (100-249); West Virginia, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (20-99); East South Central—Kentucky, 2 (20-99); Tennessee, 5 (500-999); West South Central—Louisiana, 2 (20-99); Oklahoma, 2 (100-249); West—Wyoming, 2 (20-99); Colorado, 5 (20-99); Arizona, 6 (250-499); Utah, 1 (1-19); Pacific—Washington, 2 (20-99); Oregon, 2 (20-99).

<sup>2</sup>See footnote 8 of table 1. Table 2A is based on the definition of the industry under the 1945 Standard Industrial Classification.<sup>3</sup>Less than \$500 thousand.<sup>4</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

Table 3.-Detailed Statistics for the United States: 1958

Item	Scientific instruments (SIC 3811)	Mechanical measuring devices (SIC 3821)	Automatic temperature controls (SIC 3822)	Optical instruments and lenses (SIC 3831)	Surgical and medical instruments (SIC 3841)	Surgical appliances and supplies (SIC 3842)	Dental equipment and supplies (SIC 3843)	Ophthalmic goods (SIC 3851)
Primary product specialization ratio <sup>1</sup> .....	83	86	88	90	83	84	95	87
Coverage ratio <sup>2</sup> .....	74	76	94	66	76	90	92	98
Number of establishments, total.....	567	627	83	224	231	590	249	246
With 1-19 employees.....	361	398	39	166	143	429	194	142
With 20-99 employees.....	131	136	18	42	63	114	39	75
With 100 employees or more.....	75	93	26	16	25	47	16	29
Proprietors and working partners.....Number..	222	219	15	111	97	305	128	95
All employees:								
Number (average for the year).....	67,456	50,049	25,513	7,184	10,293	24,179	7,242	18,223
Payroll.....\$1,000..	399,165	258,488	128,974	37,586	44,878	114,867	34,775	71,465
Production workers:								
Number (average for the year).....	43,146	32,123	18,049	5,141	8,061	16,277	5,227	15,272
March.....	43,131	32,866	18,089	4,949	8,250	16,319	5,243	15,530
May.....	42,704	31,991	17,360	5,080	8,075	16,157	5,256	15,218
August.....	42,838	31,477	17,763	5,135	7,895	16,071	5,209	14,704
November.....	44,098	32,342	19,011	5,653	8,095	16,685	5,246	15,387
Man-hours.....1,000..	87,192	62,982	35,599	10,485	16,162	31,460	10,188	29,988
January-March.....do....	21,283	16,103	9,080	2,532	4,235	7,804	2,561	7,736
April-June.....do....	21,847	15,809	8,830	2,553	4,138	7,853	2,577	7,672
July-September.....do....	20,893	14,580	7,899	2,452	3,908	7,375	2,385	5,531
October-December.....do....	22,862	16,142	9,751	2,842	4,378	8,246	2,548	7,978
Wages.....\$1,000..	222,481	144,873	81,083	23,459	31,039	62,122	21,077	53,525
Cost of materials, etc., total.....do....	403,752	262,571	103,775	142,677	48,944	200,377	44,940	62,010
Materials, parts, containers, and supplies consumed.....do....	340,980	224,473	90,286	26,999	42,364	155,048	38,479	55,536
Cost of resales.....do....	14,347	22,225	8,561	12,463	4,254	38,816	4,770	2,108
Fuels consumed.....do....	1,546	1,576	850	293	407	1,232	288	1,064
Electricity purchased.....do....	3,734	2,910	1,543	439	591	1,703	504	1,100
Contract work.....do....	43,145	11,387	2,535	12,485	11,328	3,578	1,899	2,202
Value of shipments (including resales), total.....do....	1,000,235	726,823	359,430	102,966	130,477	461,846	115,667	194,446
Value of resales.....do....	17,855	30,144	11,603	14,011	5,896	60,769	6,935	2,987
Value added by manufacture, adjusted...do....	606,530	457,126	258,969	60,387	85,153	257,640	71,574	136,696
Manufacturers' inventories:								
Beginning of year, total.....do....	237,815	190,689	72,981	20,231	26,911	74,514	26,053	58,103
Finished products.....do....	17,544	38,879	22,241	5,476	9,426	31,569	7,966	23,427
Work-in-process.....do....	177,674	90,868	36,534	12,326	8,278	16,221	12,262	21,514
Materials, supplies, fuel, etc.....do....	42,597	60,942	14,206	2,399	9,207	26,724	5,825	13,162
End of year, total.....do....	245,412	181,379	76,081	22,003	30,558	70,358	26,432	59,602
Finished products.....do....	18,956	37,862	24,175	6,406	10,818	28,272	8,448	25,587
Work-in-process.....do....	186,309	84,759	37,914	11,496	10,506	15,689	12,627	23,614
Materials, supplies, fuel, etc.....do....	40,147	58,758	13,992	4,101	9,234	26,397	5,357	10,401
Expenditures for plant and equipment, total.....do....	28,951	22,045	6,054	3,492	2,828	9,459	1,770	5,537
New, total.....do....	25,593	18,215	5,989	3,438	2,812	9,110	1,517	5,367
New structures and additions to plant.....do....	10,710	6,861	680	2,035	696	2,132	322	1,016
New machinery and equipment.....do....	14,883	11,354	5,309	1,403	2,116	6,978	1,195	4,351
Used plant and equipment.....do....	3,358	3,830	65	54	16	349	253	170

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.



## INSTRUMENTS: SURGICAL, DENTAL AND OPHTHALMIC GOODS

38A-15

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	
3811	Scientific instruments:											
	Number of establishments.....	567	188	89	84	91	40	31	22	12	2	8
	All employees:											
	Number.....	67,456	405	593	1,151	2,838	2,796	4,593	7,860	<u>10,641</u>	(D)	36,579
	Payroll.....\$1,000..	399,165	1,607	2,648	5,613	13,615	15,509	24,317	42,730	<u>55,236</u>	(D)	237,890
	Value added, adjusted..do....	606,530	3,457	4,915	9,359	22,183	26,650	38,139	71,133	<u>88,832</u>	(D)	341,862
	Value of shipments.....do....	1,000,235	6,025	8,456	14,463	35,190	39,877	61,710	113,750	<u>138,808</u>	(D)	581,956
	Capital expend., new...do....	25,593	( <sup>1</sup> )	( <sup>1</sup> )	514	850	1,027	1,082	2,876	<u>6,583</u>	(D)	11,915
3821	Mechanical measuring devices:											
	Number of establishments.....	627	206	103	89	91	45	47	25	10	9	2
	All employees:											
	Number.....	50,049	449	699	1,208	3,008	3,126	7,826	8,603	6,838	<u>18,292</u>	(D)
	Payroll.....\$1,000..	258,488	1,655	3,267	5,688	14,199	16,239	39,593	46,003	35,558	<u>96,286</u>	(D)
	Value added, adjusted..do....	457,126	4,125	6,873	10,590	24,688	28,232	75,264	84,629	58,480	<u>164,245</u>	(D)
	Value of shipments.....do....	726,823	6,965	11,270	17,497	40,521	44,127	122,135	137,793	104,505	<u>242,010</u>	(D)
	Capital expend., new...do....	18,215	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	648	1,484	1,778	2,947	1,168	<u>9,482</u>	(D)
3822	Automatic temperature controls:											
	Number of establishments.....	83	17	13	9	11	7	4	6	8	7	1
	All employees:											
	Number.....	25,513	30	100	107	348	439	548	2,401	5,964	<u>15,576</u>	(D)
	Payroll.....\$1,000..	128,974	140	484	439	1,308	2,106	2,788	10,890	30,171	<u>80,648</u>	(D)
	Value added, adjusted..do....	258,969	( <sup>1</sup> )	950	621	2,504	7,083	8,449	22,171	62,337	<u>154,564</u>	(D)
	Value of shipments.....do....	359,430	( <sup>1</sup> )	1,720	1,017	4,100	12,262	13,447	30,997	88,573	<u>206,870</u>	(D)
	Capital expend., new...do....	5,989	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	568	1,551	<u>3,223</u>	(D)
3831	Optical instruments and lenses:											
	Number of establishments.....	224	95	38	33	33	9	12	1	3	...	...
	All employees:											
	Number.....	7,184	201	252	448	892	578	1,913	<u>2,900</u>	(D)	...	...
	Payroll.....\$1,000..	37,586	749	1,111	1,947	4,242	2,741	10,178	<u>16,618</u>	(D)	...	...
	Value added, adjusted..do....	60,387	1,522	2,155	3,389	7,458	4,435	16,547	<u>24,881</u>	(D)	...	...
	Value of shipments.....do....	102,966	2,806	3,557	5,155	11,021	7,556	24,287	<u>48,584</u>	(D)	...	...
	Capital expend., new...do....	3,438	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	757	<u>1,570</u>	(D)	...	...
3841	Surgical and medical instruments:											
	Number of establishments.....	231	82	39	22	47	16	17	6	1	1	...
	All employees:											
	Number.....	10,293	168	257	306	1,514	1,053	2,503	<u>4,492</u>	(D)	(D)	...
	Payroll.....\$1,000..	44,878	589	1,075	1,374	6,620	4,787	12,327	<u>18,106</u>	(D)	(D)	...
	Value added, adjusted..do....	85,153	1,259	2,004	2,343	11,314	8,650	22,235	<u>37,348</u>	(D)	(D)	...
	Value of shipments.....do....	130,477	2,672	3,708	3,690	17,109	12,818	36,750	<u>53,730</u>	(D)	(D)	...
	Capital expend., new...do....	2,812	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	520	<u>1,072</u>	(D)	(D)	...
3842	Surgical appliances and supplies:											
	Number of establishments.....	590	242	111	76	76	38	27	11	6	3	...
	All employees:											
	Number.....	24,179	491	724	1,019	2,415	2,783	4,199	3,434	4,375	<u>4,739</u>	...
	Payroll.....\$1,000..	114,867	1,645	2,842	4,040	10,034	11,426	16,942	14,798	24,140	<u>29,000</u>	...
	Value added, adjusted..do....	257,640	3,731	5,554	8,050	19,201	19,477	37,333	39,433	68,415	<u>56,446</u>	...
	Value of shipments.....do....	461,846	6,435	8,915	13,262	33,436	39,626	72,942	61,756	127,797	<u>97,677</u>	...
	Capital expend., new...do....	9,110	( <sup>1</sup> )	( <sup>1</sup> )	966	( <sup>1</sup> )	700	883	744	2,387	<u>2,597</u>	...
3843	Dental equipment and supplies:											
	Number of establishments.....	249	123	40	31	21	18	12	1	3	...	...
	All employees:											
	Number.....	7,242	234	274	426	680	1,209	<u>2,245</u>	(D)	2,174	...	...
	Payroll.....\$1,000..	34,775	847	1,215	2,103	2,912	6,053	<u>10,759</u>	(D)	10,886	...	...
	Value added, adjusted..do....	71,574	2,576	2,535	3,608	5,979	10,262	<u>18,884</u>	(D)	27,730	...	...
	Value of shipments.....do....	115,667	4,444	5,068	7,038	9,186	20,730	<u>28,102</u>	(D)	41,099	...	...
	Capital expend., new...do....	1,517	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	706	...	...
3851	Ophthalmic goods:											
	Number of establishments.....	246	81	30	31	43	32	20	4	2	1	2
	All employees:											
	Number.....	18,223	185	202	450	1,440	2,284	3,129	1,387	<u>9,146</u>	(D)	(D)
	Payroll.....\$1,000..	71,465	712	822	1,772	5,865	8,123	11,693	4,970	<u>37,508</u>	(D)	(D)
	Value added, adjusted..do....	136,696	1,946	1,298	3,564	10,400	12,849	23,113	8,952	<u>74,574</u>	(D)	(D)
	Value of shipments.....do....	194,446	2,955	2,885	5,646	19,615	21,953	31,891	14,488	<u>95,013</u>	(D)	(D)
	Capital expend., new...do....	5,367	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	670	606	( <sup>1</sup> )	<u>3,292</u>	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.

**Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954**

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3811	Scientific instruments.....1958..	1,000,235	690,743	141,030	168,462	83	932,059	690,743	241,316	74
3821	Mechanical measuring devices....1958..	726,823	578,728	92,618	55,477	86	760,780	578,728	182,052	76
3822	Automatic temperature controls..1958..	359,430	301,780	40,609	17,041	88	319,855	301,780	18,075	94
3831	Optical instruments and lenses..1958..	102,966	75,958	8,243	18,765	90	115,481	75,958	39,523	66
	1954..	80,339	69,796	7,065	6,478	91	117,574	69,796	47,778	59
3841	Surgical and medical instruments.....1958..	130,477	98,707	20,930	10,840	83	130,570	98,707	31,863	76
3842	Surgical appliances and supplies.....1958..	461,846	326,400	63,908	71,538	84	362,029	326,400	35,629	90
3843	Dental equipment and supplies...1958..	115,667	101,848	5,139	8,680	95	110,680	101,848	8,832	92
	1954..	83,529	74,409	3,908	5,212	95	79,482	74,409	5,073	94
3851	Ophthalmic goods.....1958..	194,446	164,658	24,137	5,651	87	167,951	164,658	3,293	98
	1954..	159,061	128,899	26,092	4,070	83	136,482	128,899	7,583	94

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries.)

Prod. class code	Scientific instruments industry	Scientific instruments (SIC 3811)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,000,235	xxx	xxx
	Primary products.....	690,743	241,316	932,059
38111	Aircraft flight nautical and navigational instruments and automatic pilots.....	466,969	<sup>1</sup> 181,509	648,478
38112	Other engineering, laboratory and scientific instruments.....	206,811	<sup>2</sup> 57,044	263,855
38110	Engineering, laboratory and scientific and research instruments and associated equipment, nsk.....	16,963	2,763	19,726
	Secondary products.....	141,030	xxx	xxx
35712	Computing and accounting machines.....	2,401	xxx	xxx
36112	Test equipment for testing electrical, radio and communication circuits and motors...	19,065	xxx	xxx
36113	Other electrical measuring instruments.....	2,112	xxx	xxx
36626	Electronic military, industrial and commercial equipment, nec.....	3,104	xxx	xxx
36795	Other electronic components and accessories, nec, including parts for electron tubes.	3,398	xxx	xxx
37291	Other aircraft parts and auxiliary equipment.....	18,686	xxx	xxx
38211	Aircraft engine instruments, except flight.....	18,594	xxx	xxx
38213	Industrial process instruments.....	4,803	xxx	xxx
38611	Still picture equipment.....	1,980	xxx	xxx
	Other secondary products.....	<sup>3</sup> 66,887	xxx	xxx
	Miscellaneous receipts.....	168,462	xxx	xxx
	Contract work.....	6,578	xxx	xxx
	Receipts for repair work, sales of scrap and refuse, and research and development....	143,242	xxx	xxx
	Sales of products bought and resold without further manufacture.....	17,855	xxx	xxx
	Other miscellaneous receipts.....	787	xxx	xxx
Prod. class code	Mechanical measuring devices industry	Mechanical measuring devices (SIC 3821)	Other industries	All industries
	Total shipments and receipts of the industry.....	726,823	xxx	xxx
	Primary products.....	578,728	182,052	760,780
38211	Aircraft engine instruments, except flight.....	16,961	<sup>4</sup> 38,520	55,481
38212	Integrating meters, nonelectrical type.....	117,646	1,712	119,358
38213	Industrial process instruments.....	340,985	<sup>5</sup> 62,301	403,286
38214	Motor vehicle instruments, except electric.....	13,972	<sup>6</sup> 56,815	70,787
38216	Other mechanical measuring and controlling instruments.....	70,622	<sup>7</sup> 22,099	92,721
38210	Mechanical measuring and controlling instruments, except automatic temperature controls, nsk.....	18,542	605	19,147
	Secondary products.....	92,618	xxx	xxx
34941	Metal valves for piping systems (except plumbing and heating valves).....	10,495	xxx	xxx
36112	Test equipment for testing electrical, radio and communication circuits and motors...	6,024	xxx	xxx
36113	Other electrical measuring instruments.....	6,462	xxx	xxx
36795	Other electronic components and accessories, nec, including parts for electron tubes...	2,530	xxx	xxx
38111	Aircraft flight nautical and navigational instruments and automatic pilots.....	4,565	xxx	xxx
38112	Other engineering, laboratory and scientific instruments.....	6,325	xxx	xxx
38220	Automatic temperature controls.....	6,416	xxx	xxx
	Other secondary products.....	<sup>8</sup> 49,801	xxx	xxx
	Miscellaneous receipts.....	55,477	xxx	xxx
	Contract work.....	3,034	xxx	xxx
	Receipts for repair work, sales of scrap and refuse, and research and development....	20,679	xxx	xxx
	Sales of products bought and resold without further manufacture.....	30,144	xxx	xxx
	Other miscellaneous receipts.....	1,620	xxx	xxx
Prod. class code	Automatic temperature controls industry	Automatic temperature controls (SIC 3822)	Other industries	All industries
	Total shipments and receipts of the industry.....	359,430	xxx	xxx
38220	Automatic temperature controls.....	301,780	<sup>9</sup> 18,075	319,855
	Secondary products.....	<sup>10</sup> 40,609	xxx	xxx
	Miscellaneous receipts.....	17,041	xxx	xxx
	Repair work, sales of scrap and refuse, and research and development.....	5,965	xxx	xxx
	Sales of products bought and resold without further manufacture.....	11,603	xxx	xxx
	Other miscellaneous receipts.....	73	xxx	xxx

See footnotes at end of table.

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry,  
for the United States: 1958-Continued

Prod. class code	Optical instruments and lenses	Optical instru- ments and lenses (SIC 3831)	Other industries	All industries
38510	Total shipments and receipts of the industry.....	102,966	xxx	xxx
	Optical instruments and lenses.....	75,958	<sup>11</sup> 39,523	115,481
	Secondary products.....	<sup>12</sup> 8,243	xxx	xxx
	Miscellaneous receipts.....	18,765	xxx	xxx
	Receipts for repair work, sales of scrap and refuse, and research and development...	3,581	xxx	xxx
	Sales of products bought and resold without further manufacture.....	14,011	xxx	xxx
	Other miscellaneous receipts.....	1,173	xxx	xxx
Prod. class code	Surgical and medical instruments industry	Surgical and medical instruments (SIC 3841)	Other industries	All industries
38410	Total shipments and receipts of the industry.....	130,477	xxx	xxx
	Surgical and medical instruments and apparatus.....	98,707	<sup>13</sup> 31,863	130,570
	Secondary products.....	20,930	xxx	xxx
38112	Other engineering, laboratory and scientific instruments.....	2,547	xxx	xxx
38421	Surgical, orthopedic and prosthetic appliances and supplies.....	6,344	xxx	xxx
	Other secondary products.....	<sup>14</sup> 12,039	xxx	xxx
	Miscellaneous receipts.....	10,840	xxx	xxx
	Contract work.....	3,713	xxx	xxx
	Receipts for repair work, sales of scrap and refuse, and research and development...	1,173	xxx	xxx
	Sales of products bought and resold without further manufacture.....	5,896	xxx	xxx
	Other miscellaneous receipts.....	58	xxx	xxx
Prod. class code	Surgical appliances and supplies industry	Surgical appliances and supplies (SIC 3842)	Other industries	All industries
	Total shipments and receipts of the industry.....	461,846	xxx	xxx
	Primary products.....	326,400	35,629	362,029
38421	Surgical, orthopedic, and prosthetic appliances and supplies.....	239,747	<sup>15</sup> 16,826	256,573
38423	Personal industrial safety devices.....	46,637	<sup>16</sup> 9,728	56,365
38424	Electrical hearing aids.....	31,739	<sup>17</sup> 7,778	39,517
38420	Orthopedic, prosthetic, and surgical appliances and supplies, nsk.....	8,277	1,297	9,574
	Secondary products.....	63,908	xxx	xxx
23990	Fabricated textile products, nec.....	7,020	xxx	xxx
38410	Surgical and medical instruments and apparatus.....	4,444	xxx	xxx
	Other secondary products.....	<sup>18</sup> 52,444	xxx	xxx
	Miscellaneous receipts.....	71,538	xxx	xxx
	Contract work.....	3,921	xxx	xxx
	Receipts for repair work, sales of scrap and refuse, and research and development...	5,863	xxx	xxx
	Sales of products bought and resold without further manufacture.....	60,769	xxx	xxx
	Other miscellaneous receipts.....	985	xxx	xxx
Prod. class code	Dental equipment and supplies industry	Dental equip- ment and supplies (SIC 3843)	Other industries	All industries
38430	Total shipments and receipts of the industry.....	115,667	xxx	xxx
	Dental instruments, equipment and supplies.....	101,848	<sup>19</sup> 8,832	110,680
	Secondary products.....	5,139	xxx	xxx
	Miscellaneous receipts.....	8,680	xxx	xxx
	Receipts for repair work, sales of scrap and refuse, and research and development...	1,199	xxx	xxx
	Sales of products bought and resold without further manufacture.....	6,935	xxx	xxx
	Other miscellaneous receipts.....	546	xxx	xxx

See footnotes at end of table.



Table 5B—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Ophthalmic goods industry	Ophthalmic goods (SIC 3851)	Other industries	All industries
	Total shipments and receipts of the industry.....	194,446	xxx	xxx
38510	Ophthalmic goods.....	164,658	3,293	167,951
	Secondary products.....	<sup>20</sup> 24,137	xxx	xxx
	Miscellaneous receipts.....	5,651	xxx	xxx
	Resales.....	2,987	xxx	xxx
	Other miscellaneous receipts.....	2,664	xxx	xxx

<sup>1</sup>Includes shipments (in thousands of dollars) by the following industries: \$10,570 by Industry 3611; \$2,626 by Industry 3621; \$10,472 by Industry 3662; \$3,397 by Industry 3679; and \$4,565 by Industry 3821; as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Major Group 19, Industry 3571, Industry 3721, Industry 3722, Industry 3729, and Industry 3822.

<sup>2</sup>Includes shipments (in thousands of dollars) by the following industries: \$4,793 by Industry 3611; \$6,325 by Industry 3821; and \$1,909 by Industry 3861; as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3729, and Industry 3831.

<sup>3</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 25224, 36215, 36513, 36624, and 36625.

<sup>4</sup>Includes shipments of \$18,594 thousand by Industry 3811, as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Major Group 19, Industry 3611, and Industry 3741.

<sup>5</sup>Includes shipments (in thousands of dollars) by the following industries: \$11,722 by Industry 3494, and \$4,803 by Industry 3811, as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3822, Industry 3831, Industry 3841, and Industry 3842.

<sup>6</sup>Includes shipments by the following industries which total \$2 million or more, but are withheld to avoid disclosing individual company figures: Industry 3599, Industry 3694, and Industry 3717.

<sup>7</sup>Includes shipments of \$3,131 by Industry 3611, as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3717, and Industry 3822.

<sup>8</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 34434, 34813, 35690, 37224, and 37291.

<sup>9</sup>Includes shipments of \$6,416 thousand by Industry 3821, as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3494, and Industry 3599.

<sup>10</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 34941, 36131, 36132, 36791, 38111, 38213, 38216, and 38711.

<sup>11</sup>Includes shipments by the following industries which total \$2 million or more, but are withheld to avoid disclosing individual company figures: Major Group 19, Industry 3611, Industry 3662, Industry 3851, and Industry 3861.

<sup>12</sup>Includes shipments of over \$2 million by product class 38613.

<sup>13</sup>Includes shipments of \$4,444 by Industry 3842, as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 2599, Industry 2834, and Industry 3988.

<sup>14</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 28345, and 38213.

<sup>15</sup>Includes shipments of \$6,344 thousand by Industry 3841.

<sup>16</sup>Includes shipments by Industry 3851, which total over \$2 million, but are withheld to avoid disclosing individual company figures.

<sup>17</sup>Includes shipments by Industry 3651, which total over \$2 million, but are withheld to avoid disclosing individual company figures.

<sup>18</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 26414, 28347, 28445, 30695, 38213, and 38430.

<sup>19</sup>Includes shipments by Industry 3842, which total over \$2 million, but are withheld to avoid disclosing individual company figures.

<sup>20</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 31720, 38310, and 38423.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Value of shipments including interplant transfers (\$1,000)				
		1958		1954		
3811---	Scientific instruments, total.....		932,059		<sup>1</sup> 685,495	
38111--	Aircraft flight, nautical, and navigational instruments and automatic pilots		648,478		536,932	
3811111	Flight instruments and automatic pilots (excluding gyroscopes).....		211,183	}		
	Gyroscopes:					
3811121	Vertical.....		14,930			
3811123	Directional.....		5,076			
3811125	Free, torqued and untorqued.....		1,602			
3811127	Rate.....		15,296			
3811141 3811143	Integrating rate (nonfloated) and fully floated.....		7,032			
3811198	Other nautical and navigational instruments, except electronic.....		386,627		<sup>2</sup> 142,907	
3811100	Aircraft flight, nautical, and navigational instruments and automatic pilots, nsk.....		6,732		( <sup>2</sup> )	
38112--	Other engineering, laboratory, and scientific instruments.....		263,855		148,563	
3811211 3811241	Surveying and drafting instruments and apparatus, except optical (including surveying instruments, transits, drawing instruments, drafting machines, slide rules, planimeters, integrators, photogrammetric equipment, etc.).....					
				16,459		17,907
3811271	Laboratory and scientific instruments and laboratory furniture: Laboratory precision balances (including accessories, attachments, and parts).....		3,692		2,659	
3811261	Other instruments (excluding aircraft, nautical, and navigational instruments and apparatus, electrical quantity measuring instruments, and industrial instruments).....		186,190		89,618	
	Laboratory furniture:					
	Cabinets and cases:					
3811281	Wood.....		26,471		16,999	
3811285	Metal.....		21,583		16,292	
3811289	Other (tables, stools, reagent shelves, etc.).....		9,460		5,088	
3811000	Scientific instruments, nsk.....		19,726		(NA)	
		Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3821---	Mechanical measuring instruments, total.....		xxx 760,780	xxx	567,515	
3821111	Aircraft engine instruments, except flight.....		xxx 55,481	xxx	80,454	
38212--	Integrating meters, nonelectrical type.....		xxx 119,358	xxx	107,112	
3821211	Gas meters.....	1,000 units.	1,232 40,806	1,609	37,480	
3821231	Water meters.....	..do.....	1,247 47,886	1,352	37,298	
3821298	Other liquid meters, including gasoline dispensing.....		xxx 30,412	xxx	<sup>3</sup> 32,334	
3821200	Integrating meters, nonelectrical type, nsk.....		xxx 254	xxx	( <sup>3</sup> )	
38213--	Industrial process instruments.....		xxx 403,286	xxx	280,832	
	Temperature:					
	Thermometers (glass stem and bi-metal):					
3821311	Industrial and laboratory.....		xxx 10,194	xxx	11,347	
3821313	Clinical.....	1,000 units.	9,977 6,698	10,789	6,320	
3821315	Household.....	..do.....	14,515 11,258	13,642	6,809	
3821319	Pyrometers.....		xxx 27,994	xxx	55,269	
3821322	Other temperature instruments (including filled system thermometers).....		xxx 27,363			
	Pressure and vacuum:					
3821333	Nontransmission.....		xxx 34,014	xxx	44,901	
3821335	Pneumatic transmission.....		xxx 12,754			
3821337	Electric transmission.....		xxx 6,539			
	Fluid flow and liquid level:					
3821343	Nontransmission.....		xxx 26,349	xxx	46,334	
3821345	Pneumatic transmission.....		xxx 14,487			
3821347	Electric transmission.....		xxx 13,159			
3821348	Gas and chemical analysis.....		xxx 17,836			
3821349	Humidity.....		xxx 1,215	xxx	( <sup>4</sup> )	
3821351	Physical properties testing and inspection equipment, including hardness, strength of materials, thickness, wear, abrasion, and similar testers...		xxx 34,120	xxx	21,611	
3821398	Other industrial process instruments.....		xxx 138,017	xxx	<sup>4</sup> 88,241	
3821300	Industrial process instruments, nsk.....		xxx 21,289	xxx	( <sup>4</sup> )	
38214--	Motor vehicle instruments, except electric.....		xxx 70,787	xxx	47,627	
3821411 3821498	Speedometers for motor vehicles..... Other motor vehicle indicating instruments, except electric (fuel level, oil pressure, etc.).....	}	xxx 70,477	xxx	47,627	
3821400	Motor vehicle instruments, except electric, nsk.....					xxx 310

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3821---	Mechanical measuring instruments--Continued					
38216--	Other mechanical measuring and controlling instruments.....		xxx	92,721	xxx	51,490
3821613	Nuclear radiation detection instruments (including geiger counters, scintillation counters, etc.).....		xxx	519,922	xxx	51,490
3821651	Other mechanical measuring instruments.....		xxx	52,986		
3821671	Revolution counters.....	1,000 units.	1,769	12,530		
3821600	Other mechanical measuring and controlling instruments, nsk.....		xxx	7,283		
3821000	Mechanical measuring and controlling instruments, except automatic temperature controls, nsk.....		xxx	19,147		
Value of shipments including interplant transfers (\$1,000)						
			1958		1954	
3822011	Automatic temperature controls, activated by pressure, temperature, level, flow, time, or humidity (including pneumatic controls) of the type principally used as components of air-conditioning, refrigeration, and comfort heating, or as components of major household appliances.....			319,855		259,669
3831---	Optical instruments and lenses, total.....			115,481		*117,574
3831011	Photographic and projection lenses and photographic prisms, for sale separately.....			16,116		*26,998
3831031	Field glasses, prismatic and nonprismatic; terrestrial and celestial telescopes.....			4,974 ( <sup>e</sup> )		9,741 977
3831051	Microprojectors and photomicrographic equipment.....			( <sup>e</sup> )		6,854
3831053	Microscopes.....					
3831071	Optical measuring instruments (refractometers, colorimeters, spectrometers, spectrographs, spectrophotometers, polariscopes, contour projectors, metallographic equipment, etc.).....			27,540		20,719
3831098	Other optical instruments, lenses, parts and accessories.....			<sup>e</sup> 45,096		*52,285
3831000	Optical instruments and lenses, nsk.....			721,755		(NA)
Total shipments including interplant transfers						
		Unit of measure	1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3841---	Surgical and medical instruments and apparatus, total.....		xxx	130,570	xxx	99,391
3841012	Surgical instruments (including suture needles, and eye, ear, nose, and throat instruments).....		xxx	10,362	xxx	6,312
3841031	Orthopedic instruments, such as bone drills, bone plates, etc. (excluding eye, ear, nose, and throat instruments).....		xxx	5,938	xxx	4,793
3841051	Diagnostic apparatus (includes such items as metabolism and blood pressure apparatus, ophthalmoscopes, otoscopes, cystoscopes, etc.).....		xxx	9,650	xxx	7,837
	Hypodermic syringes:					
3841063	Reusable.....	1,000.....	} 19,628	14,385	10,562	12,940
3841065	Disposable.....	..do.....				
3841071	Hypodermic needles.....	..do.....	182,518	12,510	87,484	7,181
3841081	Other surgical and medical instruments (including anesthesia apparatus, transfusion equipment, blood donor kits, veterinary instruments).....		xxx	36,339	xxx	<sup>a</sup> 27,428
3841091	Operating room furniture, including cases, cabinets, etc.....		xxx	7,595	xxx	6,445
3841095	Other hospital furniture (excluding operating equipment, beds, and instru- ments; but including cabinets, cases, desks, tables, bassinets, chart racks, back rests, etc.).....		xxx	24,993	xxx	23,418
3841000	Surgical and medical instruments and apparatus, nsk.....		xxx	8,798	xxx	3,037
3842---	Orthopedic, prosthetic, and surgical appliances and supplies, total.....		xxx	362,029	xxx	<sup>a</sup> 285,014
38421--	Surgical, orthopedic, and prosthetic appliances and supplies.....		xxx	256,573	xxx	220,020
3842111	Orthopedic appliances (braces).....		xxx	9,977	xxx	( <sup>10</sup> )
3842115	Sterilizers (including hospital and surgical).....		xxx	17,010	xxx	12,819
	Surgical dressing:					
3842122	Bandages, elastic.....		xxx	6,144	xxx	<sup>11</sup> 65,984
3842123	Bandages, other (including muslin, plaster of Paris, etc.; but excluding self-adhering bandages).....	1,000 sq.yds.	16,718	8,065		
3842124	Adhesive plaster, medicated and nonmedicated (including self- adhering bandages).....		xxx	47,835	xxx	28,827
3842127	Cotton, including cotton balls (sterile and nonsterile).....		xxx	22,324	xxx	(11)
3842126	Other surgical dressings (including sponges, compresses, pads, and absorbent and packing gauze).....		xxx	29,854		
3842129						
3842133	Sterile surgical sutures, absorbable.....		xxx	20,804	xxx	19,032
3842134	Sterile surgical sutures, nonabsorbable.....		xxx	8,198		
3842135	Artificial limbs (prosthetic).....		xxx	3,345	xxx	( <sup>10</sup> )
3842138	Elastic stockings.....		xxx	7,017	xxx	4,416
3842141	Elastic braces, suspensories, and other elastic supports.....		xxx	10,556	xxx	8,513
3842145	Arch supports and other foot appliances.....		xxx	1,949	xxx	4,107
3842151	Trusses.....		xxx	2,839	xxx	( <sup>10</sup> )

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3842---	Orthopedic, prosthetic, and surgical appliances and supplies--Continued					
38421--	Surgical, orthopedic, and prosthetic appliances and supplies--Continued					
3842161	Corn removers, pads, bunion pads, etc.....	1,000.....	xxx	4,190	xxx	9,940 <sup>(8)</sup>
3842171	Surgical corsets.....	1,000.....	46	2,717	(NA)	
3842198	Other surgical and orthopedic items not included in above categories (wheel chairs, infant incubators, respirators, etc.).....		xxx	40,313	xxx	104,978
3842100	Surgical, orthopedic, and prosthetic appliances and supplies, nsk.....		xxx	13,436	xxx	1216,404
38423--	Personal industrial safety devices.....		xxx	56,365	xxx	35,962
3842311	Respiratory protection equipment (including gas masks, abrasive masks, canister masks, etc.).....		xxx	13,927	xxx	35,962
3842331	Eye and face protection devices (including face shields, hoods, and welding helmets and masks).....		xxx	2,374		
3842351	Protective clothing (except shoes).....		xxx	15,167		
3842361	First aid, snake bite, and burn kits.....		xxx	5,667		
3842371	Other personal safety devices.....		xxx	19,230		
3842411	Electrical hearing aids, complete units.....	1,000.....	400	39,517	307	29,032
3842000	Orthopedic, prosthetic, and surgical appliances and supplies, nsk.....		xxx	9,574	xxx	(12)
3843---	Dental equipment and supplies, total.....		xxx	110,680	xxx	79,482
	Dental metals:					
3843011	Precious.....	1,000 troy oz.....	xxx	1317,998	420	15,389
3843015	Nonprecious.....	1,000 troy oz.....			xxx	498
3843021	Dental alloys for amalgams.....	oz.....	950	1,505	1,468	2,034
	Teeth (excluding dentures):					
3843031	Porcelain.....	1,000 teeth.	64,882	10,439	74,975	10,571
3843035	Resinous.....	..do.....	20,726	3,461	17,804	2,132
3843041	Denture materials.....		xxx	2,962	xxx	2,639
3843047	Dental professional equipment (including dental chairs, equipment units, cabinets, lights, etc.).....		xxx	24,906	xxx	14,183
3843051	Dental laboratory equipment (including furnaces, casting machines, lathes, benches, polishing units, flasks, blow pipes, presses, etc.).....		xxx	2,988	xxx	2,368
3843057	Dental hand instruments (forceps and pliers, broaches, cutting instruments, etc.).....		xxx	10,192	xxx	3,958
3843061	Burs, diamond points, abrasive points, wheels, disks, and similar tools for use with hand pieces.....		xxx	6,198	xxx	4,610
3843071	Waxes, cements, dental gypsums, impression materials, and other consumable supplies, including low-fusing alloys.....		xxx	12,242	xxx	11,801
3843098	Other dental products including dental sterilizers (excluding X-ray equipment).....		xxx	7,328	xxx	4,391
3843000	Dental instruments, equipment, and supplies, nsk.....		xxx	10,461	xxx	4,908
3851---	Ophthalmic goods, total.....		xxx	167,951	xxx	136,482
	Ophthalmic fronts and temples finished:					
3851012	Gold filled fronts, full rimmed or semirimmed (with or without decoration)	1,000 units.	1,124	2,753	xxx	56,140
3851014	Aluminum or other metal fronts (with or without decoration).....	..do.....	428	1,553		
3851015	Plastic fronts (with or without decoration).....	..do.....	16,417	20,027		
3851016	Combination fronts (with or without decoration).....	..do.....	7,108	16,927		
3851017	Temples (all types).....	1,000 pairs.	26,144	25,736		
3851018	Centers, oxfords, parts, trim, unfinished fronts and temples, etc.....		xxx	6,774		
3851024	Ophthalmic spectacles and eyeglasses (frames and mountings of all types when sold with corrective lenses inserted-with or without decorations).....	1,000 units.	3,449	3,500		
	Ophthalmic focus lenses:					
3851032	Single vision lenses (ground and polished and moulded blanks).....	1,000 pairs.	14,553	13,721	31,752	14,966
3851035	Multifocal lenses (bifocals and trifocals; finished and semifinished and moulded blanks).....	..do.....	13,899	28,098	14,742	21,665
3851041	Industrial goggles, eye protectors, mountings, and parts.....		xxx	13,923	xxx	10,340
3851051	Sun or glare glasses and sun goggles, complete.....	1,000 units.	16,780	14,445	23,620	16,399
3851098	Other ophthalmic goods, instruments, sun glass frames, and accessories (simple readers and magnifiers, holders, etc.).....		xxx	9,231	xxx	11,515
3851000	Ophthalmic goods, nsk.....		xxx	11,263	xxx	5,457

NA Not available. <sup>1</sup>The 1954 total value of shipments does not include a total for product code 3811000, scientific instruments, nsk, estimated at less than \$3 million. <sup>2</sup>For 1954, includes product code 3811100. <sup>3</sup>For 1954 includes product code 3821200. <sup>4</sup>For 1954 included with product code 3821398. <sup>5</sup>1958 Shipments of nuclear radiation detection instruments were reported in greater detail in the Atomic Energy Products Annual Survey M58Q-08. Shipments of radiation survey, monitoring, and control devices were valued at \$13,846 thousand; shipments of radiation counting equipment were valued at \$10,387 thousand. Because of differences in reporting techniques in the 1958 Census of Manufactures, it is likely that additional amounts of nuclear detection instruments are included in the value of shipments reported in product code 3821600, "Other mechanical instruments, nsk," and in product code 3821000, "Mechanical measuring instruments, nsk." <sup>6</sup>For 1958 included with product code 3831098 to avoid disclosing figures for individual companies. <sup>7</sup>Includes some sighting and fire control equipment shipped by plants producing their own optical lenses and prisms. <sup>8</sup>In 1954 an undetermined value of steel instruments for general surgery was included with other surgical and medical instruments. <sup>9</sup>The 1954 total value of shipments does not include a total for product code 3842171, surgical corsets, estimated at less than \$1 million. <sup>10</sup>In 1954, "Orthopedic appliances (braces)," "Artificial limbs (prosthetics)," "Trusses," and "Unsterilized suture materials" were included with "Other surgical and orthopedic items." <sup>11</sup>Comparable data for 1954 collected under old product code 3842221, "Surgical dressings." <sup>12</sup>For 1954, included with "Surgical, orthopedic, and prosthetic appliances and supplies, nsk." <sup>13</sup>Precious and nonprecious dental metals were combined in 1958 to avoid disclosing operations of individual companies. \*Revised.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954
<u>Aircraft flight, nautical and navigational instruments (38111):</u>			<u>Aircraft engine instruments, except flight (38211):</u>			<u>Industrial process instruments (38213)--Continued</u>		
United States, total:			United States, total:			East North Central.....	97,963	65,219
1958.....	648,478		1958.....	55,481		Ohio.....	42,723	21,063
1957.....	507,960		1957.....	96,350		Indiana.....	2,275	( <sup>9</sup> )
1956.....	462,626		1956.....	92,758		Illinois.....	38,874	28,108
1955.....	401,703		1955.....	70,312		Michigan.....	10,025	8,857
1954.....	536,932		1954.....	80,454		Wisconsin.....	4,066	( <sup>2</sup> )
1947.....	21,407		1947.....	35,868				
						West North Central.....	5,410	6,349
Northeast.....	399,024	291,055	New England.....	17,093	30,858	Iowa.....	4,601	4,199
Massachusetts.....	16,521	18,979	Connecticut.....	2,322	( <sup>2</sup> )	South.....	20,048	(NA)
Connecticut.....	8,404	( <sup>2</sup> )	Middle Atlantic.....	26,005	25,704	Maryland.....	1,171	( <sup>2</sup> )
New York.....	273,345	126,832	New York.....	17,294	14,526	Oklahoma.....	4,665	2,110
North Central.....	151,532	(NA)	North Central.....	9,998	(NA)	Texas.....	4,786	3,322
Illinois.....	14,523	15,924				West.....	32,266	(NA)
All other regions.....	97,922	(NA)				California.....	30,614	( <sup>2</sup> )
Virginia.....	2,231	( <sup>2</sup> )						
California.....	67,510	( <sup>2</sup> )	<u>Integrating meters, non-electrical type (38212):</u>					
			United States, total:					
			1958.....	119,358		<u>Other mechanical measuring and controlling instruments (38216):</u>		
			1954.....	107,472		United States, total.....		92,721
			1953.....	102,403		Northeast.....		44,949
			1952.....	104,281		Massachusetts.....		12,693
			1951.....	116,016		Connecticut.....		11,961
			1950.....	92,147		New York.....		8,606
			1947.....	63,262		New Jersey.....		5,173
Other engineering, laboratory, and scientific instruments (38112):						North Central.....		31,810
United States, total.....	263,855					Ohio.....		7,403
New England.....	20,453					Illinois.....		16,827
Massachusetts.....	16,689					All other regions.....		15,962
Connecticut.....	2,584					California.....		8,650
Middle Atlantic.....	76,559							
New York.....	35,114					<u>Surgical and medical instruments (38410):</u>		
New Jersey.....	18,893					United States, total.....		130,570
Pennsylvania.....	22,552					New England.....		14,991
East North Central.....	103,592					Massachusetts.....		7,284
Indiana.....	1,281					Connecticut.....		7,274
Illinois.....	19,642							
Michigan.....	18,111					Middle Atlantic.....		56,512
West North Central.....	4,208					New York.....		26,024
Missouri.....	3,737					New Jersey.....		23,514
South Atlantic.....	16,190					Pennsylvania.....		7,174
Maryland.....	8,797					North Central.....		37,793
West South Central.....	15,629					Ohio.....		3,684
Texas.....	14,269					Indiana.....		6,438
West.....	26,500					Illinois.....		5,127
California.....	20,135					Wisconsin.....		10,601
						Missouri.....		6,324

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years-Continued

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Surgical and medical instruments (38410)--</u> Continued	1958 <sup>1</sup>	<u>Surgical, orthopedic, and prosthetic appliances and supplies (38421)--</u> Continued	1958 <sup>1</sup>	<u>Personal industrial safety devices (38423):</u> United States, total.....	1958 <sup>1</sup>
All other regions.....	21,274	East North Central.....	97,620	Northeast.....	36,749
California.....	11,361	Ohio.....	9,898	Massachusetts.....	2,801
		Indiana.....	7,758	New York.....	3,284
		Illinois.....	64,712	New Jersey.....	6,571
		Michigan.....	7,435		
		Wisconsin.....	7,817	East North Central.....	8,959
<u>Surgical, orthopedic, and prosthetic appliances, and supplies (38421):</u> United States, total.....	256,573	West North Central.....	7,679	Ohio.....	3,775
		Missouri.....	6,864	Illinois.....	3,894
Northeast.....	128,453	South.....	11,420	West North Central.....	1,002
		North Carolina.....	2,005		
Connecticut.....	22,945	West.....	11,401	All other regions.....	9,655
New York.....	25,387	California.....	10,084	California.....	5,576
Pennsylvania.....	17,741				

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

NA Not available.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 38111, New Jersey, Pennsylvania, Ohio, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Kansas, Maryland, North Carolina, Florida, Tennessee, Texas, and Arizona; 38112, Ohio, Wisconsin, West Virginia, North Carolina, Oklahoma, Wyoming, and Arizona; 38211, Vermont, Massachusetts, New Jersey, Pennsylvania, Illinois, Wisconsin, and Iowa; 38212, Massachusetts, Connecticut, New York, New Jersey, Indiana, Wisconsin, Nebraska, and Texas; 38213, Rhode Island, Connecticut, Georgia, and Tennessee; 38216, Rhode Island, Pennsylvania, Michigan, Wisconsin, Oklahoma, and Texas; 38410, Michigan, Nebraska, Tennessee, and Mississippi; 38421, Massachusetts, Rhode Island, New Jersey, Kentucky, and Texas; 38423, Rhode Island, Connecticut, Pennsylvania, West Virginia, and South Carolina.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.



Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958					
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 3811— SCIENTIFIC INSTRUMENTS		INDUSTRY 3821— MECHANICAL MEASURING DEVICES		INDUSTRY 3822— AUTOMATIC TEMPERATURE CONTROLS	
	Materials, parts, containers and supplies, total.		xxx	340,980	xxx	224,473	xxx	90,286
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes	Short tons	5,043	1,029	9,519	2,559	3,643	819
331212	Sheet and strip	do.	19,673	3,192	12,316	2,804	12,391	2,511
331213	Plates	do.	( <sup>1</sup> )	( <sup>1</sup> )	3,273	671	xxx	xxx
331215	Structural shapes	do.	5,142	1,031	2,224	580	xxx	xxx
331217	Wire and wire products	do.	( <sup>1</sup> )	( <sup>1</sup> )	(NA)	828	xxx	xxx
331219	All other carbon steel mill shapes and forms	do.	12,172	1,673	6,819	1,178	xxx	xxx
	Alloy steel (except stainless):							
331221	Bars and bar shapes	do.	2,773	1,437	1,215	700	2,650	1,061
331225	All other alloy steel mill shapes and forms	do.			2,695	1,286		
331231	Stainless steel mill shapes and forms	do.	1,821	2,951	2,544	4,026	1,213	1,806
	Copper and copper-base alloy:							
335111	Bare wire for electrical conduction only	1,000 lbs.	(NA)	847	974	933	1,014	796
363111	Insulated wire and cable	1,000 lbs.	3,810	3,721	1,473	1,237	1,491	1,367
	copper content							
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.)	1,000 lbs.	1,279	761	11,974	6,925	14,026	8,882
	Aluminum and aluminum-base alloy mill shapes and forms:							
335257	Sheet, plate and foil	do.	933	776	1,144	770	2,440	1,419
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.)	do.	1,428	1,397	1,265	787		
	Castings (rough and semifinished, received from foundry):							
332311	Steel	Short tons	1,453	1,563	8,033	5,138	1,189	629
336121	Copper and copper-base alloy	1,000 lbs.	596	614	12,411	8,719	2,535	1,582
336111	Aluminum and aluminum-base alloy	do.	2,920	4,729	10,552	8,064	5,120	3,440
	Fractional horsepower electric motors (under 1 horsepower):							
361412	Timing motors, synchronous and subsynchronous	Thousands	220	<sup>r</sup> 10,314	98	1,414	1,056	1,275
361419	All other fractional horsepower electric motors	do.	54	1,834	83	958		
366231	Electron tubes (except X-ray)	do.	1,289	4,062	729	1,431	248	231
366241	Solid state semi-conductors (transistors, diodes, etc.)	do.	1,648	10,548	376	1,568		
359311	Ball and roller bearings	do.	xxx	6,239	xxx	530	xxx	xxx
970099	All other materials and components, parts, containers, and supplies consumed	do.	xxx	<sup>r</sup> 261,048	xxx	155,241	xxx	51,342
973000	Materials, parts, containers and supplies, nsk.	do.	xxx	22,214	xxx	16,126	xxx	13,126

NA Not available. <sup>r</sup>Revised.<sup>1</sup>Included in code 331219, All other carbon steel mill shapes and forms.

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3811	SCIENTIFIC INSTRUMENTS (entire industry).....	567	67,456	399,165	43,146	87,192	222,481	606,530	403,752	1,000,235	25,593
	Establishments with:										
	90% or more specialization.....	434	29,241	170,388	17,421	35,414	85,337	284,746	215,861	507,570	14,263
	75-89% specialization.....	28	11,505	67,709	8,971	19,036	50,140	103,336	56,120	156,259	( <sup>1</sup> )
38111	Aircraft flight, nautical and navigational instruments (primary product class of estab.).....	93	45,957	280,623	28,678	57,741	153,497	408,400	269,314	676,456	13,929
	Establishments with:										
	90% or more specialization....	52	12,841	78,251	6,569	13,286	32,412	134,896	111,623	254,578	4,269
	75-89% specialization.....	10	6,494	37,776	5,374	11,136	29,726	52,561	34,424	86,104	4,338
38112	Other engineering, laboratory and scientific instruments (primary product class of estab.).....	312	19,773	110,467	13,114	26,849	63,131	183,512	126,630	301,494	10,895
	Establishments with:										
	90% or more specialization....	250	8,470	43,426	6,020	12,312	27,741	77,917	51,751	129,177	3,173
	75-89% specialization.....	20	1,912	10,138	1,187	2,404	5,520	16,385	7,155	22,735	644
3821	MECHANICAL MEASURING DEVICES (entire industry).....	627	50,049	258,488	32,123	62,982	144,873	457,126	262,571	726,823	18,215
	Establishments with:										
	90% or more specialization.....	514	25,753	130,596	17,754	34,468	79,284	244,270	135,782	382,820	7,283
	75-89% specialization.....	42	13,443	70,002	7,507	14,643	33,481	110,919	75,945	190,886	5,237
38211	Aircraft engine instruments, except flight (primary product class of estab.).....	15	1,256	6,504	653	1,454	2,740	10,217	5,535	15,995	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	8	77	406	65	118	305	541	348	870	( <sup>1</sup> )
38212	Integrating meters, non-electrical type (primary product class of estab.).....	33	6,545	32,564	5,173	10,078	23,296	79,222	49,272	130,551	2,573
	Establishments with:										
	90% or more specialization....	24	4,301	21,738	3,379	6,523	15,366	56,027	30,854	88,133	1,678
38213	Industrial process instruments (primary product class of estab.)..	306	33,566	175,291	20,606	40,462	93,704	295,369	159,919	460,002	13,258
	Establishments with:										
	90% or more specialization....	226	13,268	67,885	8,414	16,129	36,801	116,732	65,135	184,911	3,027
	75-89% specialization.....	29	9,203	48,620	4,772	9,531	21,974	77,474	44,522	123,781	4,098
38216	Other mechanical measuring and controlling instruments (primary product class of estab.).....	98	6,153	31,814	3,897	7,651	17,110	51,952	32,134	83,217	1,534
	Establishments with:										
	90% or more specialization....	78	3,340	16,824	2,307	4,490	10,227	29,798	13,408	43,071	898
	75-89% specialization.....	5	1,023	5,086	615	1,162	2,437	5,263	8,051	13,652	( <sup>1</sup> )
3841	SURGICAL AND MEDICAL INSTRUMENTS (entire industry).....	231	10,293	44,878	8,061	16,162	31,039	85,153	48,944	130,477	2,812
	Establishments with:										
	90% or more specialization.....	195	5,676	24,227	4,502	8,913	16,299	41,494	26,566	66,819	1,379
3842	SURGICAL APPLIANCES AND SUPPLIES (entire industry).....	590	24,179	114,867	16,277	31,460	62,122	257,640	200,377	461,846	9,110
	Establishments with:										
	90% or more specialization.....	514	11,729	50,089	8,637	16,527	30,603	103,449	73,312	177,338	4,212
	75-89% specialization.....	28	4,702	23,807	3,098	6,163	13,905	72,557	64,607	137,634	1,479
38421	Surgical, orthopedic, and prosthetic appliances and supplies (primary product class of estab.).....	374	16,872	84,266	11,241	21,832	44,945	191,623	150,694	345,146	7,639
	Establishments with:										
	90% or more specialization....	327	7,896	34,894	5,770	11,040	20,999	67,836	49,591	117,199	3,354
	75-89% specialization.....	20	3,366	16,439	2,527	5,023	11,342	54,820	49,017	104,381	1,076
38423	Personal industrial safety devices (primary product class of estab.).....	56	4,127	17,570	2,817	5,481	9,597	33,471	32,633	66,129	754
	Establishments with:										
	90% or more specialization....	36	1,335	5,235	1,080	2,070	3,360	9,502	10,019	19,402	( <sup>1</sup> )
	75-89% specialization.....	6	1,481	7,048	748	1,462	2,918	16,203	13,464	29,724	( <sup>1</sup> )
38424	Electrical hearing aids (primary product class of estab.).....	26	1,984	9,424	1,238	2,481	4,777	25,717	13,879	40,617	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	22	1,199	5,495	850	1,698	3,240	18,097	9,147	28,213	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.



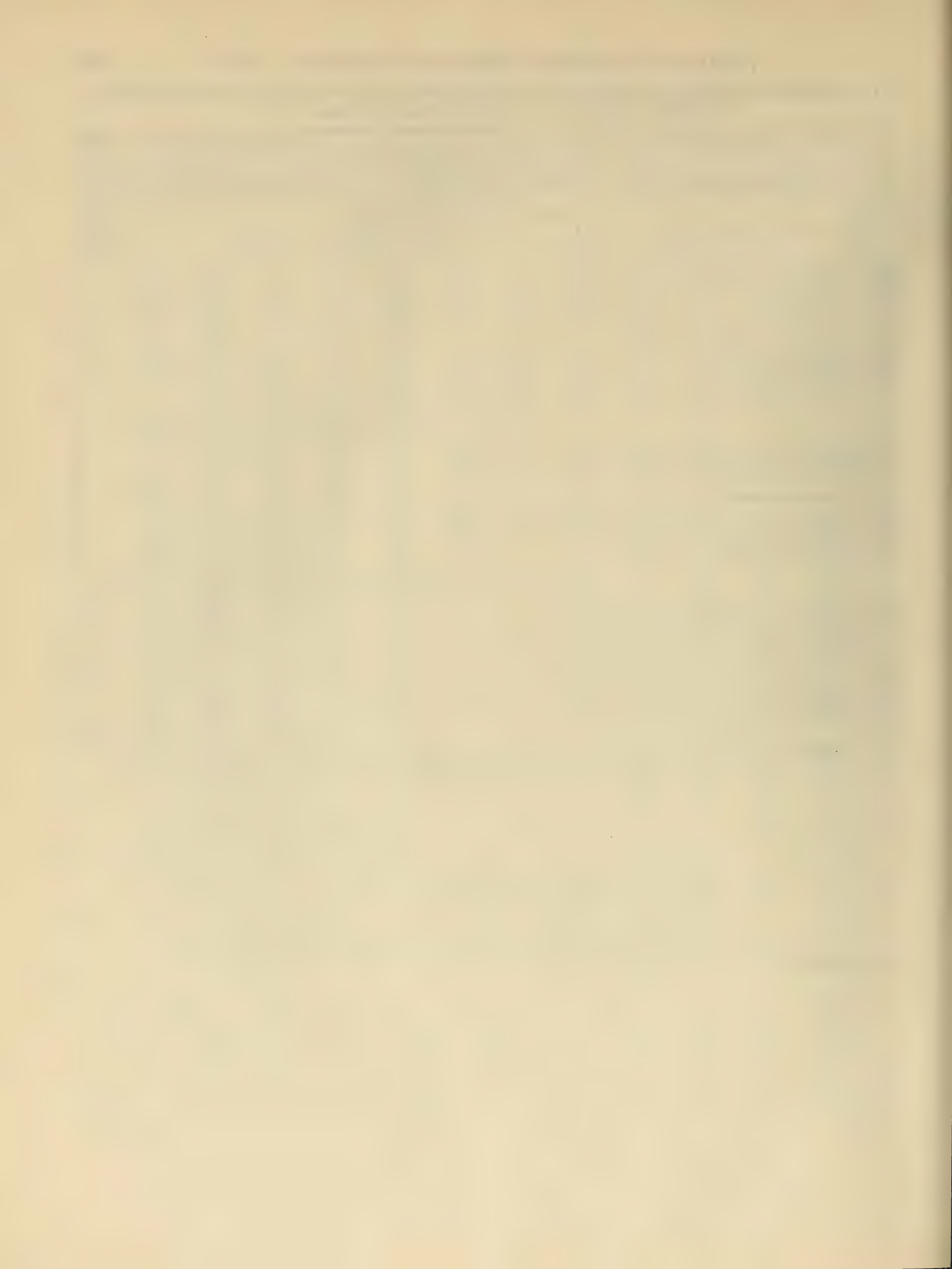
Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
INDUSTRY 3811—SCIENTIFIC INSTRUMENTS								
Ferrous foundry.....	...	...	...	...	...	...	...	...
Nonferrous foundry (except die casting).....	3	2	...	1	(D)	(D)	...	(D)
Nonferrous die casting.....	6	3	2	1	44	8	(D)	(D)
Electroplating.....	24	12	11	1	156	27	(D)	(D)
Heat treating and annealing.....	26	19	7	...	92	37	55	...
Automatic screw machine department.....	35	21	8	6	333	39	64	230
Machine shop.....	134	23	50	61	6,632	64	584	5,984
Tool and die shop.....	54	22	19	13	969	43	178	748
Foundry pattern shop.....	5	3	2	...	17	(D)	(D)	...
Stamping, blanking, and forming.....	58	34	19	5	397	70	154	173
Painting, lacquering, and enameling.....	81	60	17	4	388	116	152	120
INDUSTRY 3821—MECHANICAL MEASURING DEVICES								
Ferrous foundry.....	1	...	...	1	(D)	...	...	(D)
Nonferrous foundry (except die casting).....	7	1	3	3	280	(D)	(D)	242
Nonferrous die casting.....	11	3	7	1	112	6	(D)	(D)
Electroplating.....	26	14	9	3	199	26	6	108
Heat treating and annealing.....	35	29	4	2	148	45	(D)	(D)
Automatic screw machine department.....	53	25	20	8	546	59	235	252
Machine shop.....	163	38	58	67	6,192	87	591	5,514
Tool and die shop.....	78	34	31	13	962	78	326	558
Foundry pattern shop.....	10	9	1	...	26	(D)	(D)	...
Stamping, blanking, and forming.....	91	45	38	8	779	107	337	335
Painting, lacquering, and enameling.....	112	84	25	3	473	146	234	93
INDUSTRY 3822—AUTOMATIC TEMPERATURE CONTROLS								
Ferrous foundry.....	1	1	...	...	(D)	(D)	...	...
Nonferrous foundry (except die casting).....	3	...	1	2	70	...	(D)	(D)
Nonferrous die casting.....	3	...	2	1	62	...	(D)	(D)
Electroplating.....	13	5	6	2	137	15	(D)	(D)
Heat treating and annealing.....	14	11	2	1	61	24	(D)	(D)
Automatic screw machine department.....	25	7	13	5	424	17	146	261
Machine shop.....	33	7	5	21	1,491	14	51	1,426
Tool and die shop.....	27	8	9	10	650	18	115	517
Foundry pattern shop.....	5	3	2	...	32	(D)	(D)	...
Stamping, blanking, and forming.....	27	10	7	10	602	26	73	503
Painting, lacquering, and enameling.....	15	5	10	...	115	10	105	...

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry		
	3811	3821	3822
Total number of establishments in the industry.....	567	627	83
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	527	551	75
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	over 95	90-95	85-90

D Withheld to avoid disclosing figures for individual companies.





# Photographic Equipment; Clocks, Watches, and Watchcases

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

3861—Photographic Equipment and Supplies

3871—Watches, Clocks, and Parts Except Watchcases

3872—Watchcases

## 3861—Photographic Equipment and Supplies

This industry comprises establishments primarily engaged in manufacturing (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, and plates, and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels and folders for photographic use are classified in Major Group 26; photographic lenses in Industry 3831; photographic glass in Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in Major Group 28; and photographic flash, flood, enlarger and projection lamps in Industry 3641. For a detailed list of products of Industry 3861, refer to table 6A, product codes 3861111 to 3861811.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Photographic Equipment Industry in 1958 totaled \$1,224 million. This included shipments of photographic equipment (primary products) valued at \$990 million, shipments of other products (secondary products) valued at \$65 million, and miscellaneous receipts (mainly resales) of \$169 million.

This industry's shipments of photographic equipment (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 88 percent. Secondary products shipped by this industry in 1958 included engineering, laboratory and scientific instruments, \$2 million; and optical instruments and lenses, \$10 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 50 percent of the total industry shipments are represented by plants specializing in photographic sensitized film and plates; 21 percent in still picture equipment; 12 percent in motion picture equipment; and 9 percent in sensitized photographic paper and plate other than silver halide type.

Industry 3861 shipments of photographic equipment (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$1,053 million shipped by all industries. In 1954, the coverage ratio was 96 percent. Other industries shipping photographic equipment (primary products) consisted mainly of Industries 2621, 3291, 3611, 3662, 3693, 3811, 3831, and 3871, over \$2 million each.

## 3871—Watches, Clocks, and Parts Except Watchcases

This industry comprises establishments primarily engaged in manufacturing clocks (including electric), watches, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing watchcases are classified in Industry 3872, glass crystals in Industry 3231, and unbreakable crystals in Industry 3079. For a detailed list of products of Industry 3871, refer to table 6A, product codes 3871111 to 3871589.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Watches and Clocks Industry in 1958 totaled \$335 million. This included shipments of watches and clocks (primary products) valued at \$277 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts (mainly resales) of \$22 million.

This industry's shipments of watches and clocks (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 82 percent. Secondary products shipped by this industry in 1958 included fractional horsepower motors, \$7 million.

While the primary products of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 41 percent of the total industry shipments are represented by plants specializing in clocks; 29 percent in watches with imported movements; and 25 percent in watches with domestic movements, and parts for all clocks and watches.

Industry 3871 shipments of clocks and watches (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$292 million shipped by all industries. In 1954, the coverage ratio was 90 percent. Other industries shipping clocks and watches (primary products) consisted mainly of Industries 3634 and 3822, over \$2 million each.

## 3872—Watchcases

This industry comprises establishments primarily engaged in the manufacture of watchcases, for sale as such. Establishments primarily engaged in assembling complete

## MANUFACTURES-INDUSTRY STATISTICS

watches by assembling purchased movements with watchcases of their own manufacture are classified in Industry 3871. For a detailed list of products of Industry 3872, refer to table 6A, product codes 3872011 to 3872071.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Watchcases Industry in 1958 totaled \$35 million. This included ship-

ments of watchcases (primary products) valued at \$27 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts of \$1 million.

This industry's shipments of watchcases (primary products) in 1958 represented 80 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 86 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



# PHOTOGRAPHIC EQUIPMENT AND SUPPLIES: SIC 386

Value Added by Manufacture by State: 1958

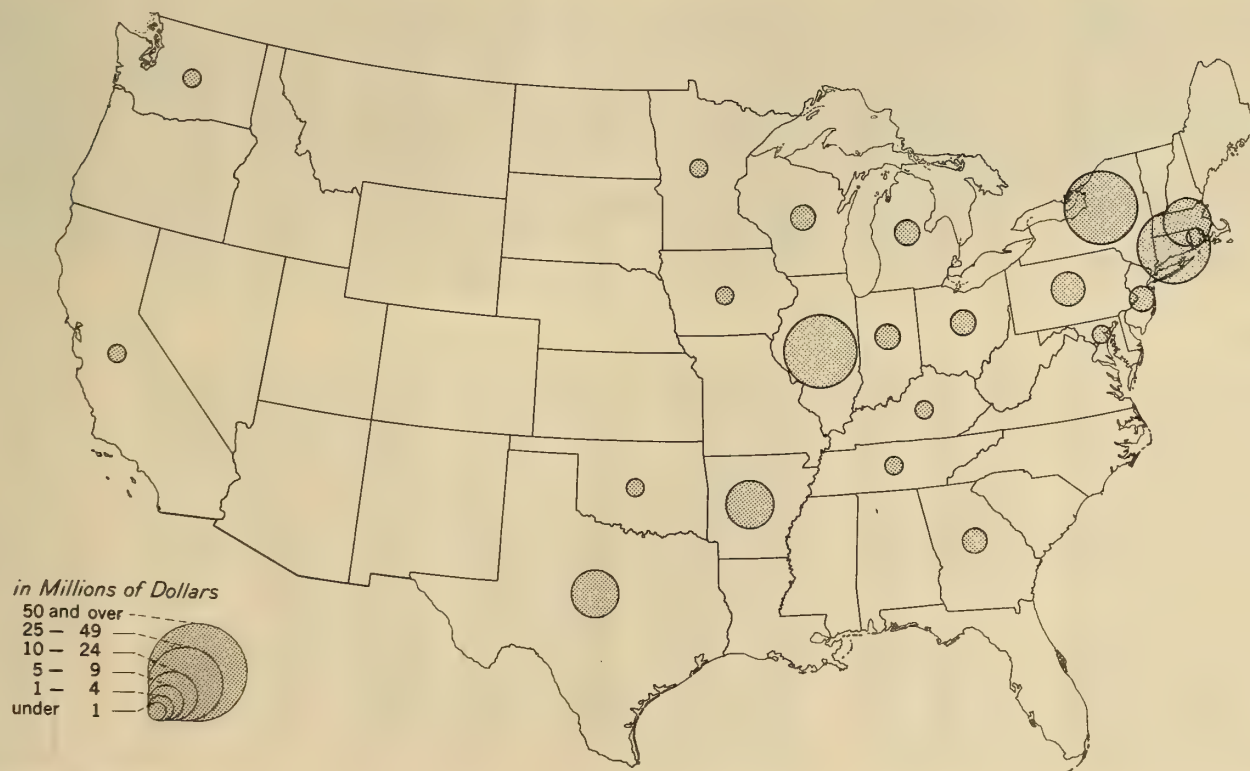


Includes only Industry 3861. See Table 2.

Bureau of the Census M-58-D386

# WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS: SIC 387

Value Added by Manufacture by State: 1958



Includes Industries 3871 and 3872. See Table 2.

Bureau of the Census M-58-D387

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3861 (old SIC 3861)	Photographic equipment:														
	1958.....	450	480	159	60,262	368,970	38,542	74,256	201,597	788,759	412,319	1,204,905	46,770	94	94
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	*68,495	*391,182	*45,587	*90,384	*225,463	*802,831	*398,901	*1,134,382	*49,635	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	*67,442	*366,137	*45,557	*91,475	*217,008	*754,040	*345,694	*1,074,179	*45,997	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	*64,871	*328,749	*43,851	*86,908	*197,496	*686,178	*331,090	*994,711	*41,841	(NA)	(NA)
	1954.....	428	449	150	*63,008	*308,324	*43,827	*86,196	*189,745	*595,900	*354,834	*960,119	*38,664	*88	*96
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	60,165	283,945	43,366	87,952	187,846	561,163	325,611	886,774	33,129	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	54,839	249,054	39,239	78,741	157,922	481,696	249,808	731,504	24,879	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	47,018	200,685	33,827	67,080	130,871	367,732	219,612	587,344	24,323	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	43,198	167,297	30,470	(NA)	104,983	324,459	174,856	499,315	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	43,811	161,319	32,130	59,503	99,037	272,056	160,801	432,857	23,961	(NA)	(NA)
	1947.....	(NA)	369	(NA)	55,624	172,973	42,365	(NA)	121,456	278,502	178,995	457,497	(NA)	93	97
	1939.....	(NA)	160	(NA)	23,248	38,873	16,434	(NA)	23,868	87,816	45,236	133,052	(NA)	(NA)	(NA)
	1937.....	(NA)	109	(NA)	23,212	39,705	18,450	(NA)	28,876	79,235	36,653	115,888	(NA)	(NA)	(NA)
	1935.....	(NA)	118	(NA)	15,460	23,208	12,000	(NA)	15,807	47,816	26,150	73,966	(NA)	(NA)	(NA)
	1933.....	(NA)	84	(NA)	10,789	14,131	8,975	(NA)	10,155	41,875	11,985	53,860	(NA)	(NA)	(NA)
	1929.....	(NA)	115	(NA)	16,302	28,371	12,967	(NA)	20,507	72,434	30,393	102,827	(NA)	(NA)	(NA)
	1921.....	(NA)	136	(NA)	14,376	20,854	10,690	(NA)	13,771	47,759	22,836	70,595	(NA)	(NA)	(NA)
	1919.....	(NA)	187	(NA)	16,300	19,478	13,465	(NA)	14,900	54,586	33,807	88,393	(NA)	(NA)	(NA)
	1914.....	(NA)	146	(NA)	11,143	8,706	8,674	(NA)	5,545	27,503	11,539	39,042	(NA)	(NA)	(NA)
	1909.....	(NA)	103	(NA)	6,537	4,499	5,195	(NA)	3,037	15,853	6,708	22,561	(NA)	(NA)	(NA)
	1899.....	(NA)	153	(NA)	3,913	1,896	3,444	(NA)	1,441	4,421	3,378	7,799	(NA)	(NA)	(NA)
3871 (old SIC 3871)	Watches and clocks:														
	1958.....	153	168	65	23,505	106,739	18,308	36,080	70,808	165,158	158,285	334,928	4,607	88	95
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,633	102,461	16,396	30,519	65,882	172,193	125,085	294,386	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,977	111,789	19,301	37,037	71,961	197,377	142,212	331,416	8,607	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	25,700	109,423	20,149	39,183	73,306	182,949	138,446	326,930	4,372	(NA)	(NA)
	1954.....	141	145	59	25,708	103,232	20,282	39,125	67,962	181,868	162,235	343,786	3,511	82	90
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,277	117,408	24,440	48,814	83,098	206,879	206,408	413,287	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	28,437	106,090	23,653	46,259	76,665	184,591	176,913	361,504	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	30,604	110,389	25,583	52,037	81,435	181,360	184,694	366,054	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,268	93,845	24,618	48,402	68,185	171,275	170,148	341,423	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	28,688	87,198	23,993	47,739	63,783	134,108	124,629	258,737	(NA)	(NA)	(NA)
	1947.....	183	194	73	34,623	93,331	30,237	60,899	70,372	169,474	171,725	341,199	4,743	97	98
	1939.....	(NA)	64	(NA)	(NA)	(NA)	17,335	(NA)	19,619	47,169	34,306	81,475	(NA)	(NA)	(NA)
	1937.....	(NA)	75	(NA)	25,785	33,250	23,223	(NA)	27,559	59,490	38,444	97,934	(NA)	(NA)	(NA)
	1935.....	(NA)	76	(NA)	20,291	22,596	18,026	(NA)	18,280	38,530	22,674	61,204	(NA)	(NA)	(NA)
	1933.....	(NA)	53	(NA)	14,242	12,245	12,850	(NA)	10,003	22,188	9,468	31,656	(NA)	(NA)	(NA)
	1931.....	(NA)	75	(NA)	(NA)	(NA)	16,213	(NA)	15,686	32,683	12,880	45,563	(NA)	(NA)	(NA)
	1929.....	(NA)	81	(NA)	23,924	31,422	21,450	(NA)	25,750	56,079	21,388	77,467	(NA)	(NA)	(NA)
	1927.....	(NA)	80	(NA)	24,726	32,386	22,472	(NA)	27,284	55,533	16,250	71,783	(NA)	(NA)	(NA)
	1925.....	(NA)	83	(NA)	24,412	30,663	22,361	(NA)	26,274	51,523	15,474	66,997	(NA)	(NA)	(NA)
	1923.....	(NA)	80	(NA)	22,983	28,047	21,326	(NA)	24,129	43,086	17,387	60,473	(NA)	(NA)	(NA)
	1921.....	(NA)	77	(NA)	20,810	24,020	19,099	(NA)	20,535	31,125	12,108	43,233	(NA)	(NA)	(NA)
	1919.....	(NA)	91	(NA)	26,752	28,684	24,722	(NA)	24,873	42,646	14,120	56,766	(NA)	(NA)	(NA)
	1914.....	(NA)	88	(NA)	21,186	13,448	19,814	(NA)	11,557	19,302	7,020	26,322	(NA)	(NA)	(NA)
	1909.....	(NA)	91	(NA)	(NA)	(NA)	19,288	(NA)	10,516	18,586	6,096	24,682	(NA)	(NA)	(NA)
	1904.....	(NA)	69	(NA)	19,226	10,864	18,358	(NA)	9,721	15,719	5,444	21,163	(NA)	(NA)	(NA)
	1899.....	(NA)	79	(NA)	13,689	7,057	13,248	(NA)	6,390	9,901	4,425	14,326	(NA)	(NA)	(NA)
3872 (old SIC 3872)	Watchcases:														
	1958.....	58	61	24	2,652	12,574	2,227	4,352	9,434	18,398	14,836	34,660	( <sup>9</sup> )	80	98
	1954.....	63	64	28	3,795	15,957	3,308	6,612	12,841	18,808	14,990	35,229	( <sup>9</sup> )	86	85
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,451	15,052	3,790	7,489	11,227	21,594	13,707	35,301	(NA)	(NA)	(NA)
	1947.....	81	82	31	5,558	16,980	4,880	10,199	13,091	24,986	19,508	44,494	521	87	94
	1939.....	(NA)	42	(NA)	3,080	4,298	2,409	(NA)	2,940	5,804	3,988	9,792	(NA)	(NA)	(NA)
	1937.....	(NA)	29	(NA)	2,868	4,126	2,451	(NA)	3,156	6,176	4,182	10,358	(NA)	(NA)	(NA)
	1935.....	(NA)	29	(NA)	2,364	3,070	2,016	(NA)	2,329	4,207	2,776	6,983	(NA)	(NA)	(NA)
	1933.....	(NA)	20	(NA)	1,316	1,216	1,169	(NA)	1,006	1,897	760	2,657	(NA)	(NA)	(NA)
	1931.....	(NA)	31	(NA)	(NA)	(NA)	1,669	(NA)	1,767	2,858	1,361	4,219	(NA)	(NA)	(NA)
	1929.....	(NA)	40	(NA)	3,921	5,952	3,404	(NA)	4,626	8,860	4,631	13,491	(NA)	(NA)	(NA)
	1927.....	(NA)	40	(NA)	3,944	5,799	3,360	(NA)	4,326	8,414	5,311	13,725	(NA)	(NA)	(NA)
	1925.....	(NA)	45	(NA)	4,025	5,527	3,480	(NA)	4,463	8,743	6,050	14,793	(NA)	(NA)	(NA)
	1923.....	(NA)	57	(NA)	4,987	6,796	4,325	(NA)	5,414	10,318	7,499	17,817	(NA)	(NA)	(NA)
	1921.....	(NA)	37	(NA)	4,323	5,293	3,698	(NA)	4,217	8,181	5,625	13,806	(NA)	(NA)	(NA)
	1919.....	(NA)	33	(NA)	4,572	5,317	3,900	(NA)	4,001	11,413	8,206	19,619	(NA)	(NA)	(NA)
	1914.....	(NA)	31	(NA)	3,832	2,351	3,514	(NA)	1,938	3,829	4,002	7,831	(NA)	(NA)	(NA)
	1909.....	(NA)	29	(NA)	(NA)	(NA)	4,569	(NA)	2,428	5,481	5,034	10,515	(NA)	(NA)	(NA)
	1904.....	(NA)	28	(NA)	4,602	2,785	4,221	(NA)	2,171	4,198	4,429	8,627	(NA)	(NA)	(NA)
	1899.....	(NA)	30	(NA)	4,142	2,214	3,907	(NA)	1,925	3,390	4,394	7,784	(NA)	(NA)	(NA)

Footnotes on next page.



Footnotes for Table 1-38B

\* Revised.

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry code	Value added (\$1,000)
3861	*589,715
3871	179,069
3872	20,231

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry code	Cost of Materials, etc. (\$1,000)	
	1958	1954
3861	354,867	*309,844
3871	147,390	150,974
3872	14,795	14,760

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry code	Value of Shipments (\$1,000)	
	1958	1954
3861	1,133,570	*899,559
3871	322,058	330,043
3872	34,607	34,991

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expend- itures, new (\$1,000)	All em- ployees, number	Value added by manufac- ture, unadjusted (\$1,000)	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3861	Photographic equip- ment, total.....	480	159	60,262	368,970	38,542	74,256	201,597	788,759	1,204,905	46,770	63,008	589,715	55,624
	New England.....	26	11	3,821	18,919	2,607	5,281	11,496	58,525	102,193	4,070	2,077	13,911	1,660
	Massachusetts....	15	5	2,938	14,929	1,956	4,021	8,930	50,522	89,813	3,845	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Middle Atlantic...	196	67	42,283	274,242	26,225	49,141	144,031	584,132	842,591	37,308	47,152	463,384	42,057
	New York.....	143	51	38,715	254,287	23,679	44,224	132,363	560,130	775,250	31,889	42,741	432,100	39,256
	New Jersey.....	32	11	3,213	18,385	2,267	4,437	10,726	31,009	59,529	(D)	4,024	28,843	2,657
	Pennsylvania....	21	5	355	1,570	261	480	942	2,993	7,812	(D)	386	2,440	144
	East North Central	117	41	10,045	53,484	6,640	13,858	31,246	97,011	187,379	3,968	10,603	86,838	8,660
	Ohio.....	15	3	273	1,420	199	424	892	2,783	5,095	( <sup>2</sup> )	356	3,092	443
	Indiana.....	6	1	200	805	159	350	552	1,670	2,915	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	69	29	7,903	42,176	5,234	10,986	24,725	76,314	147,511	3,122	7,998	63,190	6,868
	Michigan.....	16	5	1,358	7,708	845	1,704	4,311	14,936	27,837	( <sup>2</sup> )	1,698	17,102	1,227
	Wisconsin.....	11	3	311	1,375	203	394	766	1,308	4,021	( <sup>2</sup> )	499	3,200	85
	West North Central	22	7	862	3,807	708	1,325	2,667	9,073	17,920	( <sup>2</sup> )	709	5,610	1,399
	Missouri.....	11	3	245	952	210	403	764	2,040	5,661	( <sup>2</sup> )	158	1,890	420
	South Atlantic....	11	4	150	789	89	144	327	1,154	2,252	( <sup>2</sup> )	55	276	(D)
	Virginia.....	4	3	110	573	64	98	236	883	1,786	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West South Central	9	2	162	752	99	199	425	1,746	4,268	( <sup>2</sup> )	87	450	(D)
	Mountain.....	5	1	117	571	105	208	481	861	1,659	( <sup>2</sup> )	417	2,280	(D)
	Pacific.....	94	26	2,822	16,406	2,069	4,100	10,924	26,248	46,643	1,012	1,904	16,963	(D)
3871	Watches and clocks, total.....	168	65	23,505	106,739	18,308	36,080	70,808	165,158	334,928	4,607	25,708	179,069	34,623
	New England.....	21	14	7,545	34,503	5,792	11,479	22,857	48,307	70,747	803	9,181	52,824	(D)
	Massachusetts....	11	6	2,502	12,363	1,690	3,491	7,368	22,899	32,245	( <sup>2</sup> )	2,536	17,468	4,145
	Connecticut.....	10	8	5,043	22,140	4,102	7,988	15,489	25,408	38,502	( <sup>2</sup> )	6,645	35,356	10,080
	All other divisions.....	147	51	15,960	72,236	12,516	24,601	47,951	116,158	264,181	3,804	16,527	126,245	(D)
	New York.....	73	19	3,462	20,642	2,362	4,658	10,387	34,501	105,573	905	3,664	42,477	5,574
	Illinois.....	25	11	6,445	27,838	4,979	9,807	19,977	31,891	73,386	1,348	8,033	48,324	8,414
3872	Watchcases, total...	61	24	2,652	12,574	2,227	4,352	9,434	18,398	34,660	( <sup>2</sup> )	3,795	20,231	5,558
	New England.....	5	4	934	4,429	786	1,603	3,370	6,516	12,488	( <sup>2</sup> )	575	2,649	(D)
	All other divisions.....	56	20	1,718	8,145	1,441	2,749	6,064	11,882	22,172	( <sup>2</sup> )	3,219	17,581	(D)
	New York.....	53	17	1,404	6,780	1,184	2,264	5,100	10,546	19,534	(D)	1,625	9,939	2,291

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State. SIC 3861, Photographic Equipment: New England—Maine, 2 (20-99); Connecticut, 9 (500-999); West North Central—Minnesota, 7 (500-999); Iowa, 1 (20-99); Nebraska, 3 (20-99); South Atlantic—Maryland, 1 (1-19); District of Columbia, 1 (1-19); Georgia, 1 (1-19); Florida, 4 (20-99); West South Central—Louisiana, 3 (20-99); Texas, 6 (20-99); Mountain—Colorado, 4 (100-249); Utah, 1 (1-19); Pacific—Washington, 5 (1-19); Oregon, 2 (250-499); California, 87 (1000-2499).

SIC 3871, Watches and Clocks: All Other Divisions—New Jersey, 7 (250-499); Pennsylvania, 4 (1547); East North Central—Ohio, 3 (100-249); Indiana, 3 (100-249); Michigan, 5 (20-99); Wisconsin, 3 (250-499); Minnesota, 1 (1-19); Iowa, 2 (20-99); Maryland, 2 (20-99); Georgia, 2 (500-999); Kentucky, 2 (100-249); Tennessee, 1 (1-19); Arkansas, 1 (100-2499); Oklahoma, 1 (20-99); Texas, 3 (500-999); Washington, 1 (1-19); California, 8 (20-99).

SIC 3872, Watchcases: New England—Rhode Island, 1 (500-999); Connecticut, 4 (250-499); All Other Divisions—New Jersey, 1 (20-99); Ohio, 1 (20-99); Michigan, 1 (250-499);

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 3.—Detailed Statistics for the United States: 1958

Item	Photographic equipment (SIC 3861)	Watches and clocks (SIC 3871)	Watchcases (SIC 3872)
Primary product specialization ratio <sup>1</sup> .....	94	88	80
Coverage ratio <sup>2</sup> .....	94	95	98
Number of establishments, total.....	480	168	61
With 1-19 employees.....	321	103	37
With 20-99 employees.....	99	37	18
With 100 employees or more.....	60	28	6
Proprietors and working partners.....Number..	163	72	22
All employees:			
Number (average for the year).....	60,262	23,505	2,652
Payroll.....\$1,000..	368,970	106,739	12,574
Production workers:			
Number (average for the year).....	38,542	18,308	2,227
March.....	38,616	18,047	2,467
May.....	38,043	17,384	1,973
August.....	38,498	18,079	2,175
November.....	39,148	19,743	2,304
Man-hours.....1,000..	74,256	36,080	4,352
January-March.....do....	18,911	8,759	1,224
April-June.....do....	18,291	8,424	1,000
July-September.....do....	17,471	8,882	947
October-December.....do....	19,346	9,953	1,174
Wages.....\$1,000..	201,597	70,808	9,434
Cost of materials, etc., total.....do....	412,319	158,285	14,836
Materials, parts, containers, and supplies consumed.....do....	337,895	145,342	13,676
Cost of resales.....do....	56,811	10,895	53
Fuels consumed.....do....	6,430	665	73
Electricity purchased.....do....	3,483	1,003	201
Contract work.....do....	7,700	380	833
Value of shipments (including resales), total.....do....	1,204,905	334,928	34,660
Value of resales.....do....	90,364	12,870	53
Value added by manufacture, adjusted.....do....	788,759	165,158	18,398
Manufacturers' inventories:			
Beginning of year, total.....do....	208,594	74,671	9,254
Finished products.....do....	62,677	20,177	1,376
Work-in-process.....do....	81,400	39,442	5,280
Materials, supplies, fuel, etc.....do....	64,517	15,052	2,598
End of year, total.....do....	204,202	60,514	7,306
Finished products.....do....	59,798	16,000	1,022
Work-in-process.....do....	80,452	32,134	4,208
Materials, supplies, fuel, etc.....do....	63,952	12,380	2,076
Expenditures for plant and equipment, total.....do....	47,843	4,681	( <sup>3</sup> )
New, total.....do....	46,770	4,607	( <sup>3</sup> )
New structures and additions to plant.....do....	14,532	819	( <sup>3</sup> )
New machinery and equipment.....do....	32,238	3,788	( <sup>3</sup> )
Used plant and equipment.....do....	1,073	74	( <sup>3</sup> )

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>1</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	
3861	Photographic equipment:											
	Number of establishments.....	480	178	68	75	68	31	30	15	7	4	4
	All employees:											
	Number.....	60,262	352	455	1,037	2,186	2,090	4,637	5,044	4,906	39,555	(D)
	Payroll.....\$1,000..	368,970	1,442	2,030	5,061	11,062	10,416	22,816	27,177	26,905	262,061	(D)
	Value added, adjusted..do....	788,759	3,183	4,502	11,898	20,894	26,925	42,479	57,825	48,399	572,654	(D)
	Value of shipments.....do....	1,204,905	6,339	7,941	20,471	40,617	49,973	88,156	100,313	96,437	794,658	(D)
	Capital expend., new...do....	46,770	(1)	(1)	(1)	718	(1)	1,698	2,439	1,479	38,887	(D)
3871	Watches and clocks:											
	Number of establishments.....	168	66	16	21	20	17	7	9	5	6	1
	All employees:											
	Number.....	23,505	130	101	310	632	1,217	1,214	3,527	4,309	12,065	(D)
	Payroll.....\$1,000..	106,739	502	466	1,247	2,869	5,524	4,822	17,911	18,052	55,346	(D)
	Value added, adjusted..do....	165,158	1,220	850	2,462	4,947	12,835	5,660	25,792	37,691	73,701	(D)
	Value of shipments.....do....	334,928	2,635	4,200	5,512	12,619	23,043	13,731	61,443	52,356	159,389	(D)
	Capital expend., new...do....	4,607	(1)	(1)	650	(1)	(1)	(1)	881	(1)	2,199	(D)
3872	Watchcases:											
	Number of establishments.....	61	19	7	11	13	5	2	3	1	...	...
	All employees:											
	Number.....	2,652	40	47	162	437	294	1,672	(D)	(D)	...	...
	Payroll.....\$1,000..	12,574	195	226	699	2,198	1,553	7,703	(D)	(D)	...	...
	Value added, adjusted..do....	18,398	325	367	1,144	3,621	2,206	10,735	(D)	(D)	...	...
	Value of shipments.....do....	34,660	1,052	960	2,165	7,753	4,020	18,710	(D)	(D)	...	...
	Capital expend., new...do....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	Col. H	Col. I	Col. J
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
3861	Photographic equipment.....1958..	1,204,905	998,343	61,579	144,983	94	1,061,317	998,343	62,974	94
	.....1954..	960,119	744,489	98,737	116,893	88	772,919	744,489	28,430	96
3871	Watches and clocks.....1958..	334,928	277,011	36,156	21,761	88	291,524	277,011	14,513	95
	.....1954..	343,786	264,433	59,433	19,920	82	293,353	264,433	28,920	90
3872	Watchcases.....1958..	34,660	27,290	6,866	504	80	27,798	27,290	508	98
	.....1954..	35,229	29,205	4,873	1,151	86	34,457	29,205	5,252	85

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Photographic equipment industry	Photographic equipment (SIC 3861)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,204,905	xxx	xxx
	Primary products.....	998,343	62,974	1,061,317
38611	Still picture equipment.....	154,359	<sup>125</sup> 089	179,448
38612	Photocopying, microfilming, blueprinting, Vandyke, and white printing equipment.....	44,735	<sup>212</sup> 933	57,668
38615	Motion picture equipment.....	140,152	<sup>37</sup> 817	147,969
38615	Photographic sensitized film and plates.....	396,014	( <sup>4</sup> )	396,014
38616	Sensitized photographic paper and cloth, silver halide type.....	123,963	( <sup>4</sup> )	123,963
38617	Sensitized photographic paper and cloth, other than silver halide type.....	66,738	<sup>515</sup> 383	82,121
38618	Prepared photographic chemicals.....	34,425	1,429	35,854
38610	Photographic equipment and supplies, nsk.....	37,957	323	38,280
	Secondary products.....	61,579	xxx	xxx
38112	Engineering, laboratory and scientific instruments.....	1,909	xxx	xxx
38510	Optical instruments and lenses.....	10,107	xxx	xxx
	All other secondary products.....	<sup>649</sup> 563	xxx	xxx
	Miscellaneous receipts.....	144,983	xxx	xxx
	Contract work.....	12,896	xxx	xxx
	Resales.....	89,545	xxx	xxx
	Other miscellaneous receipts.....	42,542	xxx	xxx
Prod. class code	Watches and clocks industry	Watches and clocks (SIC 3871)	Other industries	All industries
	Total shipments and receipts of the industry.....	334,928	xxx	xxx
	Primary products.....	277,011	14,513	291,524
38711	Clocks.....	99,754	<sup>711</sup> 631	111,385
38715	Watches with domestic movements and parts for all clocks and watches.....	82,630	2,701	85,331
38714	Watches with imported movements.....	94,627	181	83,710
38710	Clocks, watches and clock and watch parts, nsk.....			11,098
3871X	Interplant transfers of clock and watch parts and semifinished components.....			
	Secondary products.....	36,156	xxx	xxx
36211	Fractional horsepower motors.....	7,007	xxx	xxx
	All other secondary products.....	<sup>629</sup> 149	xxx	xxx
	Miscellaneous products.....	21,761	xxx	xxx
	Contract work.....	2,058	xxx	xxx
	Resales.....	12,870	xxx	xxx
	Other miscellaneous receipts.....	6,833	xxx	xxx
Prod. class code	Watchcases industry	Watchcases (SIC 3872)	Other industries	All industries
	Total shipments and receipts of the industry.....	34,660	xxx	xxx
38720	Watchcases.....	27,290	508	27,798
	Secondary products.....	<sup>96</sup> 866	xxx	xxx
	Miscellaneous receipts.....	504	xxx	xxx
	Contract work.....	68	xxx	xxx
	Resales.....	53	xxx	xxx
	Other miscellaneous receipts.....	383	xxx	xxx

<sup>1</sup>Includes shipments of over \$2 million by each of the following industries; however, the exact values are withheld to avoid disclosing individual company figures: 3611, 3693, and 3871

<sup>2</sup>Includes shipments of over \$2 million by Industry 2621; however, the exact value is withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes shipments of over \$2 million by Industries 3662 and 3831; however, the exact values are withheld to avoid disclosing individual company figures.

<sup>4</sup>Figures for photographic sensitized film and cloth and sensitized photographic paper and cloth, silver halide type, made in other industries (considerably less than 1 percent for each), are included with shipments by the Photographic Equipment Industry to avoid disclosing individual company figures.

<sup>5</sup>Includes shipments of over \$2 million by Industries 3291 and 3811; however, the exact values are withheld to avoid disclosing individual company figures.

<sup>6</sup>Includes shipments of over \$2 million of each of the following product classes; however, the exact values are withheld to avoid disclosing individual company figures: 26215, 28211, 35595, 36211, 36360, and 36513. In addition, over \$2 million of Major Group 19 products, Ordnance and Accessories, were also shipped.

<sup>7</sup>Includes shipments of over \$2 million each by Industries 3634 and 3822; However, the exact values are withheld to avoid disclosing individual company figures.

<sup>8</sup>Includes shipments of over \$2 million of product class 38611 and Major Group 19.

<sup>9</sup>Includes shipments of over \$2 million of Major Group 19; however, the exact value is withheld to avoid disclosing individual company figures.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3861---	Photographic equipment and supplies, total.....		xxx	1,061,317	xxx	772,919
38611--	Still picture equipment (excluding photocopying, microfilming, blueprinting, Vandyke, and whiteprinting).....		xxx	179,448	xxx	170,687
	Still cameras:					
	Hand type cameras:					
	Variable focus (or focusing type) with adjustable shutter speeds:					
	Using roll film, 35mm or under:					
3861111	Stereoscopic.....	No. of units	11,305	420	79,929	4,251
3861113	All other.....	..do.....	231,180	8,959	457,996	12,894
3861115	Using roll film or paper, over 35mm.....	..do.....	} 553,121	18,187	*240,901	*8,476
3861117	Using sheet and pack film.....	..do.....				
3861119	Other hand types (fixed focus and/or time and single shutter speed) using roll film.....	..do.....	2,954,514	15,861	*3,571,602	*18,277
	Process cameras for photoengraving and photolithography <sup>1</sup> :					
3861121	Cameras, under 31" x 31".....	..do.....	} 814	2,767	{ 646	1,368
3861125	Cameras, 31" x 31" and over.....	..do.....				
3861131	Other still cameras, including view and studio for tripod or stand but excluding photocopying, microfilming, blueprinting, Vandyke, and whiteprinting.....		xxx	6,032	xxx	34,664
	Flash units (except built-in):					
	Electronic (stroboscopic):					
3861142	Portable, battery operated.....	No. of units	57,970	2,503	} (NA)	(2)
3861145	Studio type.....	..do.....	(NA)	(2)		
3861147	Nonelectronic (using disposable flash bulb).....	No. of units	1,425,341	7,005		
3861155	Photographic exposure meters, complete (except built-ins).....		(NA)	(2)		
	Projectors:					
3861161	Slide film.....	No. of units	520,128	18,132	} (NA)	18,356
3861165	Strip film (including combination slide and strip).....	..do.....	134,766	5,962		
3861167	Other (including opaque).....	..do.....	(NA)	(2)		
3861171	Still picture commercial photo finishing equipment, all types, including developing machines, continuous printing machines and motor operated print washers and dryers.....		xxx	17,583	xxx	(2)
3861181	Enlargers <sup>3</sup> .....	No. of heads	23,859	2,084	41,682	2,630
3861198	Other still picture equipment, parts, attachments, and accessories (excluding lenses for sale separately).....		xxx	254,219	xxx	*265,889
3861100	Still picture equipment (excluding photocopying, microfilming, blueprinting, Vandyke and whiteprinting), nsk.....		xxx	19,734	xxx	3,241
38612--	Photocopying and microfilming equipment.....		xxx	57,668	xxx	27,003
	Photocopying equipment:					
3861212	Contact and projection types (including all processes such as light, electrostatic and heat sensitive types).....		xxx	29,848	xxx	8,047
3861215	Microfilming equipment (including cameras, readers, and microfilming enlargers).....		xxx	7,713	xxx	6,314
3861221	Blueprinting, Vandyke, and whiteprinting equipment.....		xxx	15,829	xxx	12,642
3861225						
3861200	Photocopying equipment, nsk.....		xxx	4,278	xxx	...
38613--	Motion picture equipment.....		xxx	147,969	xxx	108,155
	8mm and 16mm motion picture equipment:					
	Cameras:					
	16mm:					
3861312	Roll load.....	No. of units	12,099	2,529	} 29,188	4,302
3861313	Magazine load.....	..do.....	6,743	1,119		
	8mm:					
3861316	Roll load.....	..do.....	} 1,094,279	45,620	443,396	17,373
3861317	Magazine load.....	..do.....				
	Projectors:					
	16mm sound:					
3861321	Optical type only.....	..do.....	} 36,723	12,183	{ 37,864	15,054
3861325	Magnetic or combination types.....	..do.....				
3861331	16mm silent.....	..do.....	9,865	1,251	14,786	1,593
3861341	8mm.....	..do.....	684,606	36,082	273,273	15,450
3861351	Motion picture projection screens.....		xxx	(4)	xxx	9,561
3861361	Motion picture processing equipment, all types, including printing machines, developing machines, and drying machines (excluding motion picture type equipment used for still picture work, and interchangeable types).....		xxx	1,423	} xxx	15,809
3861379	8mm and 16mm motion picture parts, attachments, accessories, and other 8mm and 16mm miscellaneous motion picture equipment, including sound recording (excluding lenses for sale separately).....		xxx	431,909		

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3861---	Photographic equipment and supplies--Continued					
38615--	Motion picture equipment--Continued					
	35mm and over motion picture equipment:					
3861581	Cameras.....	No. of units	359	1,824	469	1,469
	Projectors:					
3861591	Standard projector mechanisms (including unit-type projectors).....	...do.....	(NA)	(5)	1,949	1,691
3861598	Sound reproducing equipment.....	...do.....	xxx	(5)	xxx	5,264
3861597	Arc lamphouses.....	No. of units	(NA)	(5)	1,693	887
3861395	35mm and over motion picture parts, attachments accessories, and other					
	35mm and over miscellaneous motion picture equipment, including sound		xxx	11,185	xxx	14,173
	recording and studio equipment.....		xxx	2,844	xxx	1,110
3861300	35mm motion picture equipment, nsk.....					
38615--	Photographic sensitized film and plates.....		xxx	396,014	xxx	297,050
	Still picture black and white film:					
3861563	X-ray film.....	TSFSM (M) <sup>6</sup> ..	218,316	78,453	185,601	63,035
3861564	Sheet film and pack film.....	...do.....	26,986	18,866	31,290	17,846
3861565	Graphic arts film (requiring formaldehyde type developers).....	...do.....	107,141	36,229	68,662	20,050
3861566	Photographic glass plates and slides.....	...do.....	2,972	3,410	3,808	3,845
3861500	Other film, including motion picture black and white and color film,					
	amateur roll film, still color film, aerofilm, microfilm, etc. <sup>7</sup> .....	...do.....	514,293	258,157	540,208	192,274
3861599	Photographic sensitized film and plates, nsk.....		xxx	899	xxx	...
38616--	Sensitized photographic paper and cloth, silver halide type.....		xxx	123,963	xxx	78,846
3861611	Designed for continuous-tone reproduction (photo finishing portraiture,					
	etc.).....	TSFSM (M) <sup>6</sup> ..	546,908	61,200	588,842	43,654
3861615	Designed for line reproduction, photocopying and recording.....	...do.....	(NA)	62,763	675,917	35,192
38617--	Sensitized paper and cloth other than silver halide type.....		xxx	82,121	xxx	47,293
3861711	Blueprint type.....	TSFSM (M) <sup>6</sup> ..	(NA)	8,293	2,179,994	17,639
	Diazo type:					
3861713	Dry.....	...do.....	3,724,114	40,631	} 2,646,010	26,496
3861715	Semimist.....	...do.....	1,659,958	14,381		
3861721	Vandyke type.....	...do.....	(NA)	1,141	149,830	2,363
3861751	Other types (including photographic paper and cloth for all other					
	processes including heat sensitive photocopy types).....	...do.....	xxx	15,129	xxx	(NA)
3861700	Sensitized paper and cloth, other than silver halide type, nsk.....		xxx	2,546	xxx	795
3861811	Prepared photographic chemicals (developers, fixers, toners, and other					
	chemicals specifically prepared and packaged for use in photography).....	...do.....	xxx	35,854	xxx	19,755
3861000	Photographic equipment and supplies (largely film base, paper base, and					
	other raw materials), nsk.....	...do.....	xxx	38,280	xxx	24,130
3871---	Watches, clocks, and parts, total.....		xxx	291,524	xxx	293,353
38711--	Clocks.....		xxx	111,385	xxx	113,601
	Electric clocks, complete, frequency motor:					
3871111	Alarm (excluding clock timers and timing mechanisms).....	No. of units	4,045,454	13,653	} 3,706,118	14,010
3871112	Household, wall, except alarm.....	...do.....	3,024,279	10,499		
3871114	Household, all other, except alarm (including chime and strike,					
	occasional, desk, mantel, and timers and switch clocks having hands and				} 6,446,825	21,145
	dials for telling time of day).....	...do.....	3,056,634	11,459		
3871115	Commercial (including office, factory, and school).....	...do.....	323,454	2,333	199,615	1,264
	Spring wound and weight operated clocks:					
3871121	Alarm.....	...do.....	7,453,900	19,889	8,198,255	19,867
3871122	Household and commercial, except alarm <sup>8</sup> .....	...do.....	xxx	2,599	xxx	3,176
3871127	Automobile clocks (including manual, self-winding, and electric).....	No. of units	2,071,469	9,444	4,125,918	18,823
3871131	Other clocks, complete (including tower, street, master magnet operated					
	secondary clocks, chronometers, etc.).....	...do.....	xxx	3,082	xxx	2,842
3871153	Clock movements, complete, but not cased for timepiece use (including					
	electric and spring wound).....	No. of units	1,492,288	3,530	267,236	608
	Timing mechanisms, not for timepiece use (including interval timers;					
	mechanisms for parking meters, recording instruments timing and driving					
	instruments, metronomes, and other devices but excluding time recording					
	and time stamp machines:					
3871161	Electric.....	...do.....	5,962,794	24,592	6,192,230	19,318
3871165	Spring wound.....	...do.....	(NA)	9,812	4,345,218	10,012
3871100	Clocks, nsk.....		xxx	493	xxx	2,536
38714--	Watches with imported movements.....		xxx	83,710	xxx	96,827
	Jeweled-lever escapement type:					
	Men's wrist:					
3871412	17 jewels and under.....	No. of units	} 1,821,445	39,618	2,107,801	47,169
3871419	Over 17 jewels.....	...do.....				
	Women's wrist:					
3871422	17 jewels and under.....	...do.....	1,644,816	34,948	2,071,253	46,773
3871429	Over 17 jewels.....	...do.....				
3871439	Other (including pocket, lapel, etc.).....	...do.....	13,823	281	20,025	451

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3871---	Watches, clocks, and parts--Continued					
38714--	Watches with imported movements--Continued					
3871462	Pin-level escapement, all types.....	No. of units	1,117,044	7,355	403,397	1,662
3871400	Watches with imported movements (all types),nsk.....	.....	xxx	1,508	xxx	772
38715--	Watches with domestic movements and parts for all clocks and watches.....	.....	xxx	85,331	xxx	81,091
	Jeweled-lever escapement type:					
	Men's wrist:					
3871512	17 jewels and under.....	No. of units	455,604	14,620	351,245	7,505
3871519	Over 17 jewels.....	..do.....				
	Women's wrist:					
3871522	17 jewels and under.....	..do.....	719,131	21,192	942,079	24,388
3871529	Over 17 jewels.....	..do.....				
3871539	Other (including pockets, lapel, etc.).....	..do.....	22,540	1,127	49,110	1,698
	Pin Lever escapement type watches, jeweled and nonjeweled:					
3871551	Wrist.....	..do.....	5,823,919	31,612	2,815,941	12,002
3871579	Other (including pocket, lapel, etc.).....	..do.....	2,386,263	4,276	2,732,020	4,460
	Clocks and watch parts, except watch crystals:					
3871581	Clock cases and clock parts (excluding timing motors).....	.....	xxx	3,185	xxx	3,993
3871587	Watch movements, complete, for sale separately (excluding those purchased and resold in the same condition) <sup>8</sup> .....	.....	xxx	6,691	288,297	3,724
3871589	Watch parts for sale separately <sup>9</sup> .....	.....				
3871500	Clock and watch parts, except watch crystals, nsk.....	.....	xxx	2,628	xxx	1,056
3871000	Watches, clocks, and parts, nsk.....	.....				
3871X00	Interplant transfers of clock and watch parts and semifinished components.....	.....	xxx	11,098	xxx	1,834
			1958		1954	
			Total shipments including inter-plant transfers		Total shipments including inter-plant transfers	
			Quantity (number)	Value (\$1,000)	Quantity (number)	Value (\$1,000)
3872---	Watchcases.....		xxx	27,798	xxx	34,457
	For jeweled watch movement:					
	Men's wristwatch cases:					
3872011	Karat gold and platinum.....	162,699	2,313	16,400	321,852	4,332
3872013	Gold filled.....	347,762	1,855	...	940,607	5,233
3872015	Rolled gold plate and sterling silver (including rolled gold plate with steel back).....	878,255	3,274	...	1,619,177	4,114
3872019	Other metals.....	392,877	814	...	1,904,812	2,983
	Women's wristwatch cases:					
3872021	Karat gold and platinum.....	626,539	5,334	208,050	515,514	5,222
3872023	Gold filled.....	239,796	993	(10)	835,110	3,617
3872025	Rolled gold plate and sterling silver (including rolled gold plate with steel back).....	1,491,528	3,787	...	2,279,234	5,132
3872029	Other metals.....	60,909	197	...	151,878	329
	For nonjeweled or pin-lever watch movements:					
	Wristwatch cases:					
3872051	Gold filled, rolled gold plate, and sterling silver (including rolled gold plate with steel back).....	498,660	909	138,793	424,711	300
3872059	Other metals.....					
3872031	} Pocket and other watchcases (all qualities) <sup>11</sup> .....	67,182	306	1,309,825	277,633	531
3872071						
3872000	Watchcases, nsk.....	xxx	8,016	...	xxx	2,664

\*Revised.

NA Not available.

<sup>1</sup>Values include stands and attachments shipped with process cameras.<sup>2</sup>In 1954, flash units, exposure meters and still picture commercial photo finishing equipment were combined in code 3861198. In 1958, studio type flash units, exposure meters, and projectors, other than slide film and strip film, were included in code 3861198.<sup>3</sup>Quantity figures include heads shipped separately, as well as complete units. Value figures include the values of heads shipped separately, stands shipped separately and complete units shipped.<sup>4</sup>In 1958, motion picture projection screens were included in code 3861379.<sup>5</sup>In 1958, 35mm and over projectors were included in code 3861398.<sup>6</sup>Total square feet of sensitized materials (in thousands).<sup>7</sup>Motion picture film, amateur roll film, and other film were combined to avoid the disclosing of individual companies. Motion picture film was reported in linear feet by width and has been converted to TSFSM. Amateur roll film and other film were collected in TSFSM.<sup>8</sup>Includes chime and strike, occasional, desk, kitchen, mantel, wall, and timers and switch clocks having hands and dials for telling time of day.<sup>9</sup>Includes only watch parts and watch movements produced domestically, watch parts and watch movements imported by watch assemblers and resold in the same condition are excluded.<sup>10</sup>Less than 10,000.<sup>11</sup>Predominantly for pin-lever escapement type watches.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Still picture equipment (38611):</u>			<u>8mm and 16mm motion picture equipment (38613)--Continued</u>	1958 <sup>1</sup>	<u>Sensitized paper and cloth other than silver halide type (38617)--Continued</u>	1958 <sup>1</sup>
United States, total:			All other divisions.....	87,896	Northeast.....	42,040
1958.....	179,448		Illinois.....	65,056	New York.....	19,855
1957.....	185,323		Michigan.....	2,600	Pennsylvania.....	3,758
1956.....	177,338		California.....	9,046	All other divisions.....	40,081
1955.....	175,888		<u>Photographic sensitized film and plates (38615):</u>	Value of shipments	Illinois.....	13,816
1954.....	170,687		United States, total:		California.....	9,297
1953.....	183,433		1958.....	396,014	Value of shipments	
1952.....	157,319		1957.....	405,049		
1951.....	127,402		1956.....	375,864	<u>Clocks (38711):</u>	
1947.....	86,718		1955.....	339,131	United States, total:	
1958 <sup>1</sup>		1954	1954.....	297,050	1958.....	111,385
New England.....	8,874	9,654	1953.....	21,148	1957.....	132,487
Middle Atlantic.....	97,334	102,522	1952.....	19,367	1956.....	132,680
New York.....	91,070	97,056	1951.....	16,092	1955.....	140,522
New Jersey.....	4,244	3,909	1947.....	143,550	1954.....	113,601
Pennsylvania.....	2,020	1,557	1958 <sup>1</sup>	1954	1953.....	122,097
North Central.....	48,773	( <sup>2</sup> )	370,467	283,021	1952.....	101,918
Illinois.....	19,966	20,881	Value of shipments		1951.....	108,943
All other regions.....	24,467	( <sup>2</sup> )	United States, total:		1950.....	117,817
California.....	4,699	( <sup>2</sup> )	1958.....	123,963	1947.....	100,779
<u>Photocopying and micro-filming equipment (38612):</u>	Value of shipments		1957.....	114,148	1958 <sup>1</sup>	1954
United States, total:			1956.....	107,510	Northeast.....	53,884
1958.....	57,668		1955.....	95,187	Connecticut.....	19,289
1957.....	35,859		1954.....	78,846	New York.....	6,505
1956.....	38,134		1947.....	39,844	New Jersey.....	2,735
1955.....	36,185		1958 <sup>1</sup>		East North Central.....	47,246
1954.....	27,003		Northeast.....	114,675	Illinois.....	36,947
1947.....	9,302		New York.....	107,074	Michigan.....	1,668
1958 <sup>1</sup>			North Central.....	9,288	All other regions.....	10,255
Connecticut.....	1,187		Value of shipments		California.....	1,432
New York.....	31,462		United States, total:		Value of shipments	
Illinois.....	10,577		1958.....	82,121		
<u>8mm and 16mm motion picture equipment (38613):</u>	1958 <sup>1</sup>		1957.....	64,160	<u>Watches with imported movements (38714):</u>	1958 <sup>1</sup>
United States, total.....	147,969		1956.....	55,293	United States, total.....	83,710
Northeast.....	60,073		1955.....	50,515	New York.....	63,588
New York.....	39,323		1954.....	47,293	Illinois.....	14,313
			1947.....	18,504		

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates<sup>1</sup> from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 38611, Massachusetts, Connecticut, Michigan, Wisconsin, Minnesota, Arkansas, Colorado, and Oregon; 38612, New Jersey and Indiana; 38613, Massachusetts, Connecticut, New Jersey, Ohio, Indiana, Minnesota, and Colorado; 38615, Massachusetts, New York, New Jersey, and Ohio; 38616, New Jersey, Ohio, Illinois, Iowa, and Missouri; 38617, Massachusetts, New Jersey, Michigan, and Minnesota; 38711, Massachusetts, Pennsylvania, Indiana, Wisconsin, Iowa, Georgia, and Kentucky; 38714, Pennsylvania and Ohio.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3861—PHOTOGRAPHIC EQUIPMENT					
	Materials, parts, containers and supplies, total.....		xxx	337,895	xxx	288,570
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	1,000.....	9	139	}	874
361419	All other fractional horsepower electric motors.....	do.....	1,306	3,193		
383111	Photographic and projection lenses and prisms.....		xxx	6,369	xxx	11,907
281911	Silver nitrate.....	1,000 ounces...	19,372	10,665	16,397	8,682
970099	All other materials and components, parts, containers and supplies consumed.....		xxx	295,040	xxx	264,191
973000	Materials, parts, containers and supplies, nsk.....		xxx	22,489	xxx	...
	INDUSTRY 3871—WATCHES AND CLOCKS					
	Materials, parts, containers and supplies, total.....		xxx	145,342	xxx	148,824
	Fractional horsepower electric motors (under 1 horsepower):					
361412	Timing motors, synchronous and subsynchronous.....	1,000.....	1,259	2,026	5,580	5,961
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	134,726	xxx	142,863
973000	Materials, parts, containers and supplies, nsk.....		xxx	8,590	xxx	...



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3861	PHOTOGRAPHIC EQUIPMENT (entire industry)	480	60,232	368,970	38,542	74,256	201,597	788,759	412,319	1,204,905	46,770
	Establishments with:										
	90% or more specialization.....	444	47,154	285,969	29,318	56,428	153,611	666,105	338,332	1,006,293	39,528
38611	Still picture equipment (primary product class of estab.).....	129	15,965	98,914	10,933	20,198	55,393	161,913	93,046	254,134	8,620
	Establishments with:										
	90% or more specialization.....	99	3,213	15,071	2,341	4,553	9,541	30,160	22,283	52,390	1,505
38612	Photocopying, microfilming, blue-printing, vandyke, and whiteprinting equipment (primary product class of estab.).....	23	1,039	5,121	698	1,370	2,893	24,501	10,666	33,621	756
	Establishments with:										
	90% or more specialization.....	20	813	4,070	533	1,044	2,234	20,524	8,763	27,840	745
38613	Motion picture equipment (primary product class of estab.).....	52	8,464	45,759	6,179	13,125	29,614	81,458	61,280	145,367	2,906
	Establishments with:										
	90% or more specialization.....	40	2,717	13,685	2,216	4,361	10,124	25,467	22,013	47,804	956
38615	Photographic sensitized film and plates (primary product class of estab.).....	22	27,152	179,778	15,787	29,803	91,779	437,142	154,834	591,068	31,187
38616	Sensitized photographic paper and cloth silver halide type (primary product class of estab.).....	11	1,932	10,351	1,474	3,030	6,964	24,856	20,760	46,160	678
38617	Sensitized photographic paper and cloth other than silver halide type (primary product class of estab.)...	46	3,938	20,799	2,151	4,269	9,311	42,754	58,378	104,009	1,799
	Establishments with:										
	90% or more specialization.....	39	2,333	13,208	1,239	2,537	5,696	26,552	32,861	61,746	995
38618	Prepared photographic chemicals (primary product class of estab.)...	43	461	2,410	250	468	1,017	5,719	5,352	11,330	167
3871	WATCHES AND CLOCKS (entire industry)....	168	23,505	106,739	18,308	36,080	70,808	165,158	158,285	334,928	4,607
	Establishments with:										
	90% or more specialization.....	135	14,389	64,961	10,916	21,448	42,327	90,743	103,444	200,310	2,974
	75-89% specialization.....	9	4,559	24,099	3,597	7,056	15,690	40,473	33,981	79,285	770
38711	Clocks (primary product class of estab.).....	61	12,696	54,189	9,717	19,207	36,821	82,982	53,034	137,601	2,416
	Establishments with:										
	90% or more specialization.....	38	4,438	19,663	3,292	6,523	11,865	27,185	19,112	47,470	546
38714	Watches with imported movements (primary product class of estab.)...	18	2,810	18,336	1,737	3,451	8,136	30,408	61,564	98,463	724
38715	Watches with domestic movements and parts for all clocks and watches (primary product class of estab.)...	47	6,070	25,132	5,220	10,188	19,112	39,124	40,352	82,761	743
	Establishments with:										
	90% or more specialization.....	39	1,210	3,551	1,151	2,175	3,183	13,037	5,485	18,356	176
3872	WATCH CASES (entire industry).....	61	2,652	12,574	2,227	4,352	9,434	18,398	14,836	34,660	203
	Establishments with:										
	90% or more specialization.....	52	1,716	8,132	1,440	2,785	6,037	11,640	10,028	22,166	128

## MANUFACTURES-INDUSTRY STATISTICS

Table 9.—Number of Establishments Performing Selected Metalworking Operations and Number of Production Workers Employed in These Operations, by Industry: 1958

Metalworking operations	Distribution by number of production workers in the operation							
	Establishments				Employment in the specified operation			
	Total	Number of production workers			Total	Number of production workers		
		1-4	5-19	20 or more		1-4	5-19	20 or more
	INDUSTRY 3871—WATCHES AND CLOCKS							
Electroplating.....	21	11	8	2	161	21	(D)	(D)
Heat treating and annealing.....	16	13	3	...	61	29	32	...
Automatic screw machine department.....	27	7	11	9	647	19	101	527
Machine shop.....	26	7	11	8	568	16	117	435
Tool and die shop.....	25	7	13	5	321	14	121	186
Stamping, blanking, and forming.....	35	11	14	10	666	23	119	524
	INDUSTRY 3872—WATCHCASES							
Electroplating.....	11	10	1	...	23	(D)	(D)	...
Heat treating and annealing.....	14	14	...	...	21	21	...	...
Automatic screw machine department.....	2	1	1	...	(D)	(D)	(D)	...
Machine shop.....	10	7	3	...	47	10	37	...
Tool and die shop.....	11	7	4	...	63	17	46	...
Stamping, blanking, and forming.....	21	6	12	3	196	12	104	80

Note: Very small establishments were not requested to report their metalworking operations and in some industries a few larger establishments failed to report. The significance of this undercoverage is shown in terms of employment on the last line of the table below.

Item	Industry	
	3871	3872
Total number of establishments in the industry.....	168	61
Number of establishments completing the metalworking operations inquiry, including establishments that reported "none".....	167	54
Percent of total industry employment of establishments completing the metalworking operations inquiry.....	over 95	75-80

D Withheld to avoid disclosing the operations of individual companies.



# Major Group 39—Miscellaneous Manufactures and Major Group 19—Ordnance and Accessories

Major Group 39 covers establishments primarily engaged in manufacturing products not classified in any other major manufacturing group. Industries in this group fall into the following categories: jewelry, and silverware and plated ware; musical instruments; toys, and sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, and miscellaneous notions; brooms and brushes; morticians' goods; and, other miscellaneous manufacturing industries.

For 1953 and earlier years data for Major Group 19, Ordnance and Accessories, are included with Major Group 39 in table 1 below.

For 1954 and subsequent years Major Group 19 data are published separately. However, in some tables within these

volumes, data for Major Group 19 are given both separately and combined with Major Group 39.

Major Group 19 covers establishments primarily engaged in manufacturing artillery, small arms, and related equipment; ammunition; tanks and specialized tank parts; sighting and fire control equipment; and, miscellaneous ordnance and accessories, not elsewhere classified. Collection of data in 1958 was expanded to include complete guided missiles and research and development on complete guided missiles. Table 2, data by region and state for Major Group 19, is not published on advice of the Budget Bureau.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1-GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1958 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year and item	Establishments, number		All employees		Production workers			Value added by manu- facture adjusted <sup>1</sup>	Capital expendi- tures, new
	Total	With 20 or more employees	Number	Payroll  (\$1,000)	Number	Man-hours  (1,000)	Wages  (\$1,000)		
MAJOR GROUP 39—MISCELLANEOUS MANUFACTURING									
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	371,553	1,515,058	294,655	565,213	1,029,766	2,693,874	105,639
Administrative and auxiliary establishments.	(NA)	(NA)	5,063	37,550	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	14,045	3,452	366,490	1,477,508	294,655	565,213	1,029,766	2,693,874	105,639
Operating manufacturing establishments (based on old SIC) <sup>2</sup> .....	17,509	4,662	477,041	1,944,708	382,897	739,734	1,347,924	3,532,724	176,927
Operating manufacturing establishments:									
1957 <sup>3</sup> .....	(NA)	(NA)	495,157	1,885,511	403,379	776,315	1,313,261	3,327,131	121,779
1956 <sup>3</sup> .....	(NA)	(NA)	505,879	1,860,809	416,651	813,933	1,323,779	3,304,841	158,077
1955 <sup>3</sup> .....	(NA)	(NA)	489,262	1,734,175	403,870	783,468	1,224,849	3,041,564	116,462
	(NA)	(NA)	472,445	1,663,953	385,420	748,078	1,148,704	2,745,976	114,963
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	472,445	1,663,953	385,420	748,078	1,148,704	2,745,976	114,963
Administrative and auxiliary establishments <sup>6</sup>	(NA)	(NA)	65,719	638,552	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	16,517	4,289	466,726	1,625,401	385,420	748,078	1,148,704	2,745,976	114,963
Operating manufacturing establishments:									
1953 <sup>3</sup> .....	(NA)	(NA)	843,544	3,232,056	686,051	1,367,817	2,366,408	5,271,811	205,876
1952 <sup>3</sup> .....	(NA)	(NA)	681,858	2,374,738	563,959	1,102,107	1,731,207	3,984,218	(NA)
1951 <sup>3</sup> .....	15,057	(NA)	519,105	1,711,249	431,761	862,426	1,233,298	2,842,259	116,325
1950 <sup>3</sup> .....	13,764	(NA)	488,324	1,452,037	403,996	799,458	1,054,672	2,534,332	98,275
1949 <sup>3</sup> .....	(NA)	(NA)	447,260	1,262,735	370,167	727,492	917,012	2,108,682	77,047
1947.....	14,148	(NA)	463,390	1,205,212	396,002	811,288	917,572	2,066,259	106,960
MAJOR GROUP 19—ORDNANCE AND ASSESSORIES									
1958:									
All manufacturing establishments, total.....	(NA)	(NA)	207,804	1,390,957	118,079	245,070	672,675	2,060,386	77,592
Administrative and auxiliary establishments.	(NA)	(NA)	2,860	21,135	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments <sup>5</sup> .....	228	154	204,944	1,369,822	118,079	245,070	672,675	2,060,386	77,592
Operating manufacturing establishments (based on old SIC).....	270	170	246,648	1,638,885	142,535	296,631	815,950	2,419,541	82,237
Operating manufacturing establishments:									
1957 <sup>3</sup> .....	(NA)	(NA)	171,433	949,385	111,517	220,029	518,669	1,443,272	61,001
1956 <sup>3</sup> .....	(NA)	(NA)	170,399	901,738	119,495	242,901	540,491	1,329,018	47,622
1955 <sup>3</sup> .....	(NA)	(NA)	193,522	913,028	138,579	276,667	577,735	1,394,335	63,272
1954:									
All manufacturing establishments, total.....	(NA)	(NA)	230,247	1,038,121	170,972	342,458	716,273	1,658,385	61,073
Administrative and auxiliary establishments	(NA)	(NA)	( <sup>6</sup> )	( <sup>6</sup> )	xxx	xxx	xxx	xxx	xxx
Operating manufacturing establishments.....	494	380	230,247	1,038,121	170,972	342,458	716,273	1,658,385	61,073

NA Not available.

<sup>1</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year.

<sup>2</sup>Figures for 1958, for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, establishments primarily engaged in the manufacture of plastic products nec, cork products, soda-fountain and bar equipment, and jewelry, instrument and musical instrument cases, were included in these data. Establishments primarily engaged in the manufacture of linoleum and other hard surface floor covering nec, are excluded in data prior to 1958.

<sup>3</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>4</sup>For 1953 and earlier years data includes ordnance and accessories.

<sup>5</sup>Data for 1958 include establishments primarily engaged in manufacturing complete guided missiles, and in performing research and development on complete guided missiles.

<sup>6</sup>In 1954, data for administrative and auxiliary establishments for Major Group 19, "Ordnance and Accessories", are included with Major Group 39, "Miscellaneous Manufactures."



Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958									1954	
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)	All em- ployees, number	Value added by manu- facture, unadjusted (\$1,000)
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
39	MISCELLANEOUS MANUFACTURING, TOTAL <sup>1 2</sup>	14 273	3 606	571 434	2 847 330	412 734	810 283	1 702 441	4 754 260	183 231	614 644	4 971 705
	NEW ENGLAND . . . . .	1 670	556	87 896	372 767	67 941	133 547	244 706	647 268	18 101	103 688	596 471
	MAINE . . . . .	37	11	1 262	4 092	1 155	2 289	3 608	7 111	212	(*)	(*)
	NEW HAMPSHIRE . . . . .	51	18	2 163	6 990	1 932	3 943	5 944	12 545	749	1 950	7 170
	VERMONT . . . . .	26	10	1 516	8 133	859	1 860	3 473	10 819	458	2 618	18 065
	MASSACHUSETTS . . . . .	551	203	37 114	168 637	26 779	54 079	99 616	289 243	5 612	33 820	195 000
	RHODE ISLAND . . . . .	746	205	22 829	76 007	19 322	36 084	54 911	126 320	4 047	26 345	122 693
	CONNECTICUT . . . . .	259	109	23 012	108 908	17 894	35 292	77 154	201 230	7 023	(*)	(*)
	MIDDLE ATLANTIC . . . . .	5 902	1 471	179 791	816 811	136 181	260 971	514 840	1 369 397	48 114	225 684	1 484 447
	NEW YORK . . . . .	4 415	1 030	120 948	556 196	90 151	171 629	339 227	924 136	29 394	147 955	969 194
	NEW JERSEY . . . . .	692	229	25 768	109 571	20 376	38 897	73 507	181 114	7 088	35 000	221 800
	PENNSYLVANIA . . . . .	695	212	33 075	151 044	25 654	50 445	102 106	264 147	11 632	42 912	295 512
	EAST NORTH CENTRAL . . . . .	2 343	710	99 823	487 632	71 119	139 802	289 985	865 976	25 187	124 255	(D)
	OHIO . . . . .	538	170	24 255	108 750	17 637	34 087	69 101	184 283	5 496	37 360	241 600
	INDIANA . . . . .	236	68	10 035	49 288	7 449	14 992	31 855	73 866	3 716	15 726	98 624
	ILLINOIS . . . . .	888	291	35 671	160 696	27 439	53 382	106 786	316 356	9 427	37 820	262 292
	MICHIGAN . . . . .	437	108	21 704	134 561	12 534	26 087	61 294	228 992	4 143	20 674	178 278
	WISCONSIN . . . . .	244	73	8 158	34 337	6 060	11 254	20 949	62 479	2 405	12 550	(D)
	WEST NORTH CENTRAL . . . . .	760	211	35 116	161 451	24 768	47 790	99 198	241 702	15 834	54 766	(D)
	MINNESOTA . . . . .	206	65	9 496	44 711	6 229	12 254	24 769	84 622	3 129	(*)	(*)
	IOWA . . . . .	149	34	6 112	25 664	4 665	8 856	17 602	38 900	4 672	8 950	84 800
	MISSOURI . . . . .	254	91	16 579	79 977	11 685	22 384	49 397	99 400	7 483	(*)	(*)
	NORTH DAKOTA . . . . .	8	3	227	871	186	384	551	1 307	90	159	766
	SOUTH DAKOTA . . . . .	14	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	101	557
	NEBRASKA . . . . .	59	10	1 786	6 480	1 387	2 686	4 594	10 004	275	5 880	34 200
	KANSAS . . . . .	70	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2 270	12 860
	SOUTH ATLANTIC . . . . .	835	168	34 315	164 512	22 754	44 084	84 624	290 095	16 971	23 066	129 496
	DELAWARE . . . . .	25	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(*)	(*)
	MARYLAND . . . . .	113	38	7 639	41 171	4 414	8 626	17 600	63 280	2 349	(*)	(*)
	DISTRICT OF COLUMBIA . . . . .	22	...	186	879	136	246	631	1 307	55	160	1 015
	VIRGINIA . . . . .	74	25	3 540	13 181	2 873	5 661	9 410	28 107	1 105	(*)	(*)
	WEST VIRGINIA . . . . .	30	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1 206	5 760
	NORTH CAROLINA . . . . .	124	22	9 602	46 749	5 965	11 528	23 021	58 346	4 092	(*)	(*)
	SOUTH CAROLINA . . . . .	34	9	820	2 582	669	1 291	1 837	4 837	661	(*)	(*)
	GEORGIA . . . . .	111	30	4 108	13 748	3 430	6 736	9 212	29 593	1 384	(*)	(*)
	FLORIDA . . . . .	302	36	5 804	33 580	3 122	5 737	13 273	75 267	7 038	1 857	8 368
	EAST SOUTH CENTRAL . . . . .	329	99	11 065	43 911	8 459	16 507	27 305	73 588	3 310	12 989	69 006
	KENTUCKY . . . . .	77	18	1 442	5 925	1 175	2 316	4 166	10 120	393	(*)	(*)
	TENNESSEE . . . . .	144	51	6 394	23 403	4 978	9 520	15 191	40 703	1 687	(*)	(*)
	ALABAMA . . . . .	75	21	2 247	11 703	1 437	2 937	5 660	17 725	862	1 700	9 000
	MISSISSIPPI . . . . .	33	9	982	2 880	869	1 734	2 288	5 040	368	420	2 700
	WEST SOUTH CENTRAL . . . . .	586	82	10 164	39 983	8 115	15 857	27 253	95 248	8 296	19 239	101 446
	ARKANSAS . . . . .	58	13	1 810	6 651	1 526	3 092	4 032	12 023	3 137	(*)	(*)
	LOUISIANA . . . . .	86	12	1 484	5 339	1 200	2 221	3 776	11 271	467	(*)	(*)
	OKLAHOMA . . . . .	89	8	892	3 504	706	1 331	2 493	6 025	374	626	3 424
	TEXAS . . . . .	353	49	5 978	24 489	4 683	9 213	16 952	65 929	4 318	9 620	45 600
	MOUNTAIN . . . . .	317	50	19 023	114 687	13 773	29 111	76 882	115 320	7 734	5 774	(D)
	MONTANA . . . . .	24	2	166	606	133	250	534	1 094	56	136	750
	IDAHO . . . . .	27	4	417	1 223	357	601	962	2 229	160	269	1 167
	WYOMING . . . . .	5	...	35	121	24	44	99	259	3	(*)	(*)
	COLORADO . . . . .	120	26	3 304	17 110	2 393	4 811	11 028	91 324	413	3 809	29 800
	NEW MEXICO . . . . .	33	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	963	6 159
	ARIZONA . . . . .	59	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	241	1 301
	UTAH . . . . .	36	6	1 727	6 903	743	1 474	2 949	13 204	705	350	2 400
	NEVADA . . . . .	12	2	112	716	87	163	550	1 007	100	(*)	(*)
	PACIFIC . . . . .	1 531	257	94 241	645 576	59 624	122 614	337 648	1 055 666	39 684	45 080	(D)
	WASHINGTON . . . . .	177	24	1 817	7 774	1 487	2 699	6 126	13 239	422	3 900	(D)
	OREGON . . . . .	104	15	995	4 244	774	1 326	2 914	7 531	461	1 700	10 300
	CALIFORNIA . . . . .	1 250	218	91 429	633 558	57 363	118 589	328 608	1 034 896	38 801	39 396	297 807
391	JEWELRY AND SILVERWARE, TOTAL . . . .	2 086	344	41 867	185 551	32 716	63 356	127 974	323 316	6 838	47 930	297 580
	NEW ENGLAND . . . . .	457	139	19 265	81 568	15 336	30 202	57 072	138 204	2 106	22 153	129 955
	MASSACHUSETTS . . . . .	119	49	7 388	33 139	5 395	11 094	19 898	50 673	627	7 535	43 827
	RHODE ISLAND . . . . .	304	74	7 841	28 966	6 464	12 122	20 653	52 350	1 022	9 378	50 295
	CONNECTICUT . . . . .	27	15	3 989	19 361	3 432	6 904	16 421	34 909	441	5 183	35 602
	MIDDLE ATLANTIC . . . . .	1 210	152	16 336	76 711	12 715	24 179	52 770	134 141	3 065	18 735	122 238
	NEW YORK . . . . .	1 016	103	11 812	55 612	9 197	17 186	38 725	100 953	2 734	13 923	93 757
	NEW JERSEY . . . . .	125	42	4 015	18 966	3 127	6 267	12 544	29 136	258	4 231	25 137
	PENNSYLVANIA . . . . .	69	7	509	2 133	391	726	1 501	4 052	73	580	3 343
	EAST NORTH CENTRAL . . . . .	142	23	2 721	12 745	1 925	3 683	8 070	23 916	1 041	3 636	24 347
	OHIO . . . . .	43	5	567	2 500	418	760	1 665	5 084	100	584	4 305
	INDIANA . . . . .	14	4	793	3 624	551	1 119	2 476	7 937	(D)	1 189	7 903
	ILLINOIS . . . . .	56	9	1 024	5 005	758	1 430	3 120	7 913	99	1 412	9 162
	MICHIGAN . . . . .	22	5	305	1 518	171	327	727	2 862	(D)	402	2 792
	WEST NORTH CENTRAL . . . . .	32	5	933	4 368	664	1 344	2 566	9 960	130	899	7 179
	MISSOURI . . . . .	10	2	103	481	70	131	292	817	(D)	227	1 158

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954-Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
391	JEWELRY AND SILVERWARE—CONTINUED											
	SOUTH ATLANTIC . . . . .	23	6	463	1 717	369	714	1 253	985	42	528	2 795
	MARYLAND . . . . .	8	4	273	1 056	201	395	714	1 516	36	274	1 340
	WEST SOUTH CENTRAL . . . . .	27	2	506	1 684	367	729	1 183	3 208	86	372	952
	TEXAS . . . . .	17	2	461	1 530	329	653	1 060	2 884	71	310	652
	MOUNTAIN . . . . .	36	5	482	1 414	397	749	1 060	2 126	64	435	1 766
	NEW MEXICO . . . . .	8	2	242	621	187	289	346	1 039	11	260	929
	PACIFIC . . . . .	152	10	1 077	5 123	864	1 608	3 800	10 412	296	1 072	7 806
	CALIFORNIA . . . . .	128	9	932	4 462	748	1 399	3 299	9 254	233	954	6 967
393	MUSICAL INSTRUMENTS AND PARTS, TOTAL <sup>a</sup>	274	117	17 450	81 657	13 617	26 616	57 778	131 703	4 664	15 407	93 072
394	TOYS AND SPORTING GOODS, TOTAL . . .	2 607	864	98 704	361 811	81 876	155 798	259 728	711 798	33 119	88 559	469 413
	NEW ENGLAND . . . . .	211	92	12 807	44 836	10 392	19 698	31 944	78 470	3 079	13 132	65 169
	MAINE . . . . .	17	5	701	2 146	629	1 244	1 874	3 167	(D)	259	789
	NEW HAMPSHIRE . . . . .	20	8	1 200	3 596	1 068	2 257	3 117	6 835	294	815	2 339
	VERMONT . . . . .	5	3	105	330	83	172	266	538	(D)	205	716
	MASSACHUSETTS . . . . .	106	50	6 950	24 916	5 585	10 399	17 449	44 215	1 561	7 406	37 755
	RHODE ISLAND . . . . .	18	8	1 266	4 197	1 025	1 933	2 809	8 272	460	894	4 522
	CONNECTICUT . . . . .	45	18	2 585	9 651	2 002	3 693	6 429	15 443	646	3 551	19 046
	MIDDLE ATLANTIC . . . . .	980	377	40 680	146 714	34 105	64 812	106 761	283 676	14 445	36 710	186 629
	NEW YORK . . . . .	726	276	27 223	98 219	22 528	43 200	69 824	197 794	10 007	22 531	109 545
	NEW JERSEY . . . . .	127	48	6 635	24 399	5 684	10 432	17 690	43 738	2 798	6 839	37 242
	PENNSYLVANIA . . . . .	127	53	6 822	24 096	5 893	11 180	19 247	42 144	1 640	7 339	39 842
	EAST NORTH CENTRAL . . . . .	527	194	22 917	92 311	18 580	35 377	64 959	194 603	6 636	21 891	133 897
	OHIO . . . . .	120	48	6 782	26 837	5 351	10 136	18 538	46 621	1 794	7 724	46 224
	INDIANA . . . . .	48	15	2 162	9 180	1 800	3 310	6 542	15 096	581	1 700	9 724
	ILLINOIS . . . . .	168	71	6 796	27 024	5 651	10 766	18 885	66 996	1 928	5 646	36 311
	MICHIGAN . . . . .	124	36	5 117	22 641	3 973	7 870	14 912	53 556	1 897	4 908	32 816
	WISCONSIN . . . . .	67	24	2 060	6 629	1 805	3 295	5 082	12 334	436	1 912	8 822
	WEST NORTH CENTRAL . . . . .	176	58	5 373	17 440	4 584	8 688	13 262	32 413	1 124	4 380	20 052
	MINNESOTA . . . . .	68	21	1 550	5 295	1 345	2 540	3 940	10 498	424	1 157	6 005
	MISSOURI . . . . .	57	26	2 935	9 195	2 498	4 694	7 059	16 298	529	2 474	11 208
	KANSAS . . . . .	12	1	103	410	79	152	280	731	30	101	375
	SOUTH ATLANTIC . . . . .	130	34	4 601	16 290	3 839	7 275	11 994	33 382	1 855	3 238	13 771
	MARYLAND . . . . .	15	5	401	1 338	340	606	913	2 791	65	(*)	(*)
	SOUTH CAROLINA . . . . .	7	4	368	1 127	326	645	814	2 158	515	177	888
	GEORGIA . . . . .	19	8	596	1 909	517	983	1 385	4 013	280	704	2 586
	FLORIDA . . . . .	59	9	538	1 550	453	838	1 175	3 220	(D)	466	1 795
	EAST SOUTH CENTRAL . . . . .	67	22	2 644	8 962	2 256	4 209	6 389	16 876	695	1 785	9 020
	TENNESSEE . . . . .	31	10	1 327	3 700	1 184	2 050	2 900	7 299	305	918	4 084
	MISSISSIPPI . . . . .	12	4	345	870	298	556	694	1 412	89	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	105	19	2 896	9 763	2 512	5 030	6 627	17 972	2 642	1 551	8 577
	ARKANSAS . . . . .	15	5	1 302	5 138	1 119	2 353	2 993	9 477	(D)	621	2 627
	TEXAS . . . . .	58	11	1 118	3 062	978	1 939	2 494	6 350	344	594	2 550
	MOUNTAIN . . . . .	59	10	982	2 717	895	1 625	2 366	4 967	234	1 019	5 085
	COLORADO . . . . .	34	8	654	1 822	603	1 091	1 604	3 478	73	800	4 121
	PACIFIC . . . . .	352	58	5 804	22 778	4 713	9 084	15 426	49 439	2 409	4 851	27 211
	WASHINGTON . . . . .	39	5	280	948	225	388	763	1 974	72	216	1 123
	OREGON . . . . .	29	4	299	933	258	462	751	1 834	92	294	1 357
	CALIFORNIA . . . . .	284	49	5 225	20 897	4 230	8 234	13 912	45 631	2 245	4 340	24 731
395	OFFICE SUPPLIES, TOTAL . . . . .	921	251	29 131	124 428	21 027	40 811	73 316	236 997	9 892	28 218	195 080
	NEW ENGLAND . . . . .	88	25	2 716	11 702	1 935	3 866	6 849	20 145	541	2 126	12 578
	MASSACHUSETTS . . . . .	50	8	690	3 130	472	943	1 733	6 129	(D)	602	3 828
	CONNECTICUT . . . . .	25	12	1 628	7 194	1 110	2 268	4 042	12 171	279	1 212	7 369
	MIDDLE ATLANTIC . . . . .	320	104	11 356	46 906	8 423	16 240	28 491	82 481	4 436	11 916	77 671
	NEW YORK . . . . .	199	65	5 753	21 437	4 468	8 561	13 411	42 078	2 465	5 985	37 778
	NEW JERSEY . . . . .	66	24	3 400	15 499	2 444	4 732	9 551	24 321	920	4 027	27 337
	PENNSYLVANIA . . . . .	55	15	2 203	9 970	1 511	2 947	5 529	16 082	1 051	1 903	12 556
	EAST NORTH CENTRAL . . . . .	183	51	6 062	28 476	3 841	7 412	15 252	54 783	1 599	6 199	47 203
	OHIO . . . . .	49	12	1 610	7 026	964	1 870	3 717	13 332	254	1 128	8 305
	ILLINOIS . . . . .	73	28	2 025	9 285	1 431	2 849	5 402	18 954	519	2 382	16 722
	MICHIGAN . . . . .	38	4	416	2 172	277	638	1 245	3 575	(D)	(*)	(*)
	WEST NORTH CENTRAL . . . . .	48	16	2 423	10 962	1 766	3 377	6 642	24 590	547	3 024	25 999
	MISSOURI . . . . .	17	8	584	2 206	431	837	1 328	3 547	66	775	2 901
	SOUTH ATLANTIC . . . . .	66	11	2 322	8 338	1 827	3 608	4 962	17 674	948	1 684	11 251
	VIRGINIA . . . . .	9	5	374	1 197	313	617	871	2 467	89	375	1 496
	EAST SOUTH CENTRAL . . . . .	34	13	1 417	4 953	1 124	2 360	3 146	9 934	573	1 115	5 228
	TENNESSEE . . . . .	17	10	1 219	4 316	963	2 039	2 660	8 543	469	934	4 513
	WEST SOUTH CENTRAL . . . . .	38	3	284	1 004	211	392	686	2 335	133	369	1 877
	TEXAS . . . . .	26	3	222	799	173	322	563	1 946	104	300	1 512
	MOUNTAIN . . . . .	15	4	278	1 496	157	291	568	2 432	52	210	1 207
	COLORADO . . . . .	7	3	204	1 263	112	215	426	2 049	5	170	1 004
	PACIFIC . . . . .	129	24	2 273	10 591	1 743	3 265	6 720	22 623	1 063	1 572	12 061
	CALIFORNIA . . . . .	113	20	1 924	9 081	1 439	2 696	5 489	19 985	1 025	1 431	11 284

See footnotes at end of table.



Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1958 AND 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, region, and State	1958								1954		
		Establishments, number		All employees		Production workers			Value added by manu- facture, adjusted	Capital expendi- tures, new	All em- ployees, number	Value added by manu- facture, unadjusted
		Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
396	COSTUME JEWELRY AND NOTIONS: TOTAL	2 205	571	56 274	193 621	46 984	88 180	136 498	338 324	12 364	66 675	316 497
	NEW ENGLAND . . . . .	497	167	22 049	78 849	18 661	35 087	55 408	125 925	4 479	26 952	131 215
	MASSACHUSETTS . . . . .	63	27	4 339	16 808	3 702	7 222	11 093	29 631	342	4 398	23 436
	RHODE ISLAND . . . . .	373	110	12 344	38 361	10 687	19 833	28 025	59 141	2 451	13 055	52 323
	CONNECTICUT . . . . .	52	28	5 169	22 928	4 096	7 696	15 681	36 105	1 407	9 083	53 829
	MIDDLE ATLANTIC . . . . .	1 292	307	25 685	88 160	21 073	39 521	61 654	157 221	5 795	31 627	149 618
	NEW YORK . . . . .	1 167	259	19 999	66 662	16 606	30 819	47 246	117 453	4 714	24 667	119 788
	NEW JERSEY . . . . .	88	33	2 936	10 560	2 532	4 887	7 784	21 432	524	3 164	14 539
	PENNSYLVANIA . . . . .	37	15	2 750	10 938	1 935	3 815	6 624	18 336	557	3 795	15 290
	EAST NORTH CENTRAL . . . . .	121	31	2 734	9 985	2 186	4 028	6 605	20 357	420	2 919	14 158
	OHIO . . . . .	21	5	199	683	164	297	488	2 136	61	135	596
	ILLINOIS . . . . .	64	17	1 926	7 258	1 517	2 812	4 691	12 515	244	2 109	10 806
	MICHIGAN . . . . .	13	4	244	858	201	374	599	3 600	17	273	1 061
	WEST NORTH CENTRAL . . . . .	57	20	1 954	5 761	1 660	3 124	4 064	10 470	(1)	1 990	6 725
	IOWA . . . . .	26	12	979	2 849	817	1 476	1 893	4 536	118	1 486	4 204
	SOUTH . . . . .	119	33	2 783	7 646	2 506	4 820	6 309	18 163	916	(*)	(*)
	MARYLAND . . . . .	7	4	300	802	273	532	636	1 243	55	407	1 280
	VIRGINIA . . . . .	6	4	503	1 512	467	846	1 314	4 120	90	407	2 320
	NORTH CAROLINA . . . . .	7	2	188	499	172	322	428	1 500	145	(*)	(*)
	FLORIDA . . . . .	41	5	247	566	215	362	430	928	120	246	975
	ALABAMA . . . . .	4	3	131	345	108	203	253	542	34	(*)	(*)
	WEST . . . . .	119	13	1 069	3 220	898	1 600	2 458	6 188	418	(*)	(*)
	CALIFORNIA . . . . .	82	8	794	2 617	664	1 223	1 949	4 837	263	714	3 391
398 399 190	MISCELLANEOUS MANUFACTURES: TOTAL <sup>1 2</sup>	6 180	1 459	328 008	1 900 262	216 514	435 522	1 047 147	3 012 122	116 354	357 153 2	512 162
	NEW ENGLAND . . . . .	387	121	29 746	149 930	20 520	42 513	88 844	276 179	7 224	36 766	240 822
	NEW HAMPSHIRE . . . . .	18	5	568	2 033	515	1 009	1 732	4 109	93	773	6 107
	MASSACHUSETTS . . . . .	195	63	17 376	88 968	11 325	23 842	48 258	156 365	2 894	12 884	80 466
	RHODE ISLAND . . . . .	39	9	1 083	3 504	887	1 725	2 703	5 020	85	(*)	(*)
	CONNECTICUT . . . . .	105	34	8 941	46 380	6 623	13 491	31 658	97 423	3 643	(*)	(*)
	MIDDLE ATLANTIC . . . . .	2 026	502	82 666	444 468	57 365	111 392	254 871	688 145	19 867	115 977	851 069
	NEW YORK . . . . .	1 360	310	54 080	304 597	35 673	68 709	163 166	450 938	9 073	78 577	596 172
	NEW JERSEY . . . . .	275	77	8 572	39 328	6 410	12 213	25 268	59 054	2 541	14 177	93 830
	PENNSYLVANIA . . . . .	391	115	20 014	100 543	15 282	30 470	66 437	178 153	8 253	23 218	161 062
	EAST NORTH CENTRAL . . . . .	1 260	353	54 603	291 217	36 534	73 479	159 320	486 889	14 182	(*)	(*)
	OHIO . . . . .	291	90	12 606	60 105	8 776	17 231	36 146	104 086	3 163	25 022	167 971
	INDIANA . . . . .	126	31	5 033	25 925	3 572	7 669	15 730	34 566	1 965	(*)	(*)
	ILLINOIS . . . . .	478	141	18 648	86 292	14 397	28 044	57 632	161 463	5 785	22 715	158 113
	MICHIGAN . . . . .	228	52	14 651	103 037	7 060	15 260	40 248	158 689	2 013	(*)	(*)
	WISCONSIN . . . . .	137	39	3 665	15 858	2 729	5 564	9 564	28 085	1 256	8 102	67 136
	WEST NORTH CENTRAL . . . . .	439	110	24 279	122 192	15 971	30 979	72 086	163 183	13 688	(*)	(*)
	MISSOURI . . . . .	153	49	12 622	67 035	8 416	16 224	39 940	76 984	6 833	16 955	105 334
	NORTH DAKOTA . . . . .	6	2	79	406	63	137	270	812	87	(*)	(*)
	SOUTH DAKOTA . . . . .	9	***	56	227	46	83	168	331	15	(*)	(*)
	NEBRASKA . . . . .	40	8	1 082	4 262	766	1 431	2 923	5 004	94	(*)	(*)
	SOUTH ATLANTIC . . . . .	529	92	24 440	130 277	14 486	28 141	59 892	220 097	13 576	15 208	87 680
	MARYLAND . . . . .	72	23	6 112	35 654	3 133	6 177	13 416	54 089	2 168	8 065	46 487
	DISTRICT OF COLUMBIA . . . . .	14	***	119	591	93	163	442	798	29	(*)	(*)
	VIRGINIA . . . . .	50	11	965	3 841	817	1 635	2 928	6 555	504	841	4 380
	WEST VIRGINIA . . . . .	19	2	162	527	130	252	380	858	75	(*)	(*)
	GEORGIA . . . . .	77	14	1 418	4 452	1 231	2 325	3 445	7 137	257	1 263	6 100
	FLORIDA . . . . .	169	22	4 908	31 077	2 359	4 363	11 358	70 430	(1)	1 078	5 288
	EAST SOUTH CENTRAL . . . . .	205	52	5 615	25 739	3 844	7 488	14 363	39 384	1 416	9 421	51 346
	KENTUCKY . . . . .	53	12	660	2 409	534	1 005	1 740	3 914	121	1 563	9 340
	TENNESSEE . . . . .	86	27	3 299	13 774	2 326	4 502	8 241	22 020	664	6 363	33 979
	ALABAMA . . . . .	49	11	1 498	9 060	843	1 724	3 983	12 525	593	(*)	(*)
	MISSISSIPPI . . . . .	17	2	158	496	141	257	399	925	38	(*)	(*)
	WEST SOUTH CENTRAL . . . . .	385	51	6 018	26 452	4 632	9 034	17 901	70 193	4 458	16 631	89 103
	ARKANSAS . . . . .	37	7	427	1 312	346	633	900	2 253	88	(*)	(*)
	MOUNTAIN . . . . .	179	31	17 096	108 661	12 169	26 199	72 550	104 821	8 654	3 985	32 518
	MONTANA . . . . .	15	1	105	414	80	157	366	729	46	109	653
	IDAHO . . . . .	17	3	191	705	151	223	529	1 375	156	(*)	(*)
	WYOMING . . . . .	4	***	22	98	18	33	88	157	3	(*)	(*)
	UTAH . . . . .	27	4	1 508	6 196	570	1 102	2 387	12 254	623	226	1 688
	PACIFIC . . . . .	770	147	83 545	601 326	50 993	106 297	307 320	963 231	33 289	35 777	275 545
	WASHINGTON . . . . .	99	12	949	4 442	740	1 369	3 348	7 257	230	3 433	24 437
	OREGON . . . . .	55	9	557	2 664	412	667	1 742	4 500	330	1 284	7 736
	CALIFORNIA . . . . .	616	126	82 039	594 220	49 841	104 261	302 230	951 474	32 741	31 057	243 370

Note: Due to a change in the Standard Industrial Classification system between the two census years, the 1954 data for certain industry groups have been adjusted by shifting industries or groups of industries to improve comparability (without a complete retabulation of the 1954 Census of Manufactures reports) with the 1958 figures shown in the table. Therefore, the 1954 data in this table may not agree with the 1954 data in other tables.

\*The 1954 figures are not shown because of revisions in the Standard Industrial Classification system which resulted in non-comparable data. For complete explanation of revisions to each industry, see 1958 Census of Manufactures, Volume II.

<sup>1</sup>The 1954 data for this industry are not strictly comparable with 1958 figures shown in the table. See Appendix A or section relating to the specified industry in 1958 Census of Manufactures, Volume II for further information on the comparability of 1958 and 1954 statistics.

<sup>2</sup>Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories". Government owned and operated establishments are excluded from the date.

<sup>3</sup>This industry group consists of a single 4-digit industry. Detailed data by state are included in the 4-digit industry tables.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3-DETAILED STATISTICS FOR THE UNITED STATES: 1958

(For explanation of column captions see Introduction)

Item	Miscellaneous manu- facturing (SIC 39)	Jewelry and silverware (SIC 391)	Musical instruments and parts (SIC 393)	Toys and sporting goods (SIC 394)	Office supplies (SIC 395)	Costume jewelry and notions (SIC 396)	Miscellaneous manu- facturing (SIC 398 and 399)
Number of establishments, total.....	14,273	2,086	274	2,607	921	2,205	5,952
With 1-19 employees.....	10,667	1,742	157	1,743	670	1,634	4,647
With 20-99 employees.....	2,776	273	72	648	188	468	1,088
With 100 employees or more.....	830	71	45	216	63	103	217
Proprietors and working partners.....Number..	9,378	1,654	122	1,485	568	1,503	4,000
All employees:							
Number (average for the year).....	571,434	41,867	17,450	98,704	29,131	56,274	123,064
Payroll.....\$1,000..	2,847,330	185,551	81,657	361,811	124,428	193,621	530,440
Production workers:							
Number (average for the year).....	412,734	32,716	13,617	81,876	21,027	46,984	98,435
March.....	398,475	32,092	13,436	71,628	20,656	45,471	97,475
May.....	401,909	31,296	13,051	79,553	20,857	43,755	97,423
August.....	420,745	33,159	13,337	90,029	21,038	48,512	98,018
November.....	432,977	34,839	14,721	87,050	21,794	50,798	101,911
Man-hours.....1,000..	810,283	63,356	26,616	155,798	40,811	88,180	190,452
January-March.....do....	191,920	15,186	6,586	32,312	9,944	20,784	46,351
April-June.....do....	196,983	15,014	6,268	38,271	10,257	20,687	45,899
July-September.....do....	198,053	14,322	5,982	41,715	9,770	21,684	45,232
October-December.....do....	215,994	17,782	7,671	42,317	10,502	24,019	49,354
Wages.....\$1,000..	1,702,441	127,974	57,778	259,728	73,316	136,498	374,472
Value added by manufacture, adjusted.....do....	4,754,260	323,316	131,703	711,798	236,997	338,324	951,736
Cost of fuels consumed.....do....	26,991	1,823	831	3,743	1,136	1,781	7,880
Cost of electricity purchased.....do....	37,815	2,854	977	6,484	1,932	3,310	8,535
Manufacturers' inventories:							
Beginning of year, total.....do....	1,671,437	151,377	48,102	229,971	78,512	90,912	286,788
Finished products.....do....	409,615	68,810	10,747	94,638	25,278	37,026	106,886
Work-in-process.....do....	648,952	37,797	21,495	48,756	22,015	21,110	65,915
Materials, supplies, fuel, etc.....do....	612,870	44,770	15,860	86,577	31,219	32,776	113,987
End of year, total.....do....	1,828,995	140,638	45,552	230,245	75,906	91,510	291,920
Finished products.....do....	437,956	60,305	9,475	99,428	24,371	35,896	116,659
Work-in-process.....do....	723,314	43,972	21,288	52,810	20,353	23,425	68,279
Materials, supplies, fuel, etc.....do....	667,726	36,362	14,789	78,007	31,182	32,189	106,982
Expenditures for plant and equipment, total.....do....	194,941	7,304	4,758	33,966	11,706	13,042	41,026
New, total.....do....	183,231	6,838	4,664	33,119	9,892	12,364	38,762
New structures and additions to plant.....do....	61,908	2,198	2,210	7,237	3,267	2,890	14,011
New machinery and equipment.....do....	121,322	4,639	2,454	25,882	6,625	9,474	24,751
Used plant and equipment.....do....	11,710	466	( <sup>1</sup> )	847	1,814	678	2,264

See footnotes at end of table.



Table 3-DETAILED STATISTICS FOR THE UNITED STATES: 1958-Continued

(For explanation of column captions see Introduction)

Item	Guns, howitzers, and mortars (SIC 191)	Ammunition; guided missiles (SIC 192)	Tanks and tank components (SIC 193)	Sighting and fire control equipment (SIC 194)	Small arms (SIC 195)	Small arms ammunition (SIC 196)	Ordnances and accessories, nec (SIC 199)
Number of establishments, total.....	5	76	17	25	34	24	47
With 1-19 employees.....	1	13	7	5	11	12	25
With 20-99 employees.....	3	9	3	...	11	3	10
With 100 employees or more.....	1	54	7	20	12	9	12
Proprietors and working partners.....Number..	...	6	8	2	7	9	14
All employees:							
Number (average for the year).....	251	119,762	7,069	45,506	8,010	9,049	15,297
Payroll.....\$1,000..	1,970	847,482	39,861	304,273	39,213	44,215	92,808
Production workers:							
Number (average for the year).....	124	68,058	4,619	23,695	5,823	5,682	10,078
March.....	189	66,530	4,448	24,002	6,681	5,846	10,021
May.....	95	66,607	4,492	23,327	5,740	5,646	10,067
August.....	106	67,914	4,662	23,199	5,421	5,535	9,815
November.....	110	71,182	4,865	24,241	5,490	5,706	10,270
Man-hours.....1,000..	297	143,447	9,651	47,831	11,580	11,307	20,957
January-March.....do....	110	34,878	2,267	12,307	3,404	2,984	4,807
April-June.....do....	72	35,054	2,391	12,060	3,031	2,771	5,208
July-September.....do....	56	35,334	2,451	11,193	2,368	2,680	5,266
October-December.....do....	59	38,194	2,539	12,268	2,770	2,863	5,656
Wages.....\$1,000..	819	404,968	25,197	132,838	27,240	26,033	55,580
Value added by manufacture, adjusted.....do....	2,942	1,240,048	63,711	457,757	51,005	82,733	162,190
Cost of fuels consumed.....do....	77	5,070	621	1,005	1,011	1,594	419
Cost of electricity purchased.....do....	66	7,607	775	2,700	639	998	938
Manufacturers' inventories:							
Beginning of year, total.....do....	2,604	341,000	29,912	156,064	45,009	147,829	63,357
Finished products.....do....	247	17,116	663	11,620	14,646	17,748	4,190
Work-in-process.....do....	101	202,241	22,222	118,617	21,572	13,641	53,470
Materials, supplies, fuel, etc.....do....	2,256	121,643	7,027	25,827	8,791	116,440	5,697
End of year, total.....do....	612	444,720	29,373	160,016	35,715	130,255	152,533
Finished products.....do....	218	11,589	590	12,559	11,063	12,707	43,096
Work-in-process.....do....	99	314,238	17,497	120,976	17,495	9,641	13,241
Materials, supplies, fuel, etc.....do....	295	118,893	11,286	26,481	7,157	107,907	96,196
Expenditures for plant and equipment,							
total.....do....	137	54,215	1,737	7,313	2,536	4,658	12,543
New, total.....do....	134	52,526	1,524	6,358	2,128	4,166	10,756
New structures and additions to							
plant.....do....	76	21,831	713	1,890	386	2,141	3,058
New machinery and equipment.....do....	58	30,695	811	4,468	1,742	2,025	7,698
Used plant and equipment.....do....	3	1,689	213	955	408	492	1,787

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

<sup>1</sup>Less than \$500 thousand.





# Jewelry, Silverware, and Plated Ware

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3911—Jewelry, Precious Metal
- 3912—Jewelers' Findings and Materials
- 3913—Lapidary Work and Cutting and Polishing Diamonds
- 3914—Silverware and Plated Ware

### 3911—Jewelry, Precious Metal

This industry comprises establishments primarily engaged in manufacturing jewelry and other articles, worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where stones are used), including cigarette cases and lighters, vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in Industry 3961. For a detailed list of products of Industry 3911, refer to table 6A, product codes 3911112 to 3911298.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Jewelry, Precious Metal, Industry in 1958 totaled \$326 million. This included shipments of precious metal jewelry (primary products) valued at \$279 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$32 million.

This industry's shipments of precious metal jewelry (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent. Secondary products shipped by this industry in 1958 consisted mainly of costume jewelry and costume novelties, except precious metal, \$6 million.

While the primary products of the industry include jewelry made of platinum metals and karat gold; and jewelry made of precious metals, except platinum metals and karat gold, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 69 percent of the total industry shipments are represented by plants specializing in 39111, Jewelry made of platinum metals and karat gold; and 25 percent in 39112, Jewelry made of precious metals, except platinum metals and karat gold.

Industry 3911 shipments of jewelry, precious metal (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$287 million shipped by all industries. In 1954, the coverage ratio was 96 percent. Other industries shipping jewelry, precious metal (primary products) consisted mainly of Industry 3961, Costume Jewelry, \$4 million.

### 3912—Jewelers' Findings and Materials

This industry comprises establishments primarily engaged in manufacturing unassembled jewelry parts, and stock shop products such as sheet, wire and tubing. Establishments primarily engaged in lapidary work are classified in Industry 3913. For a detailed list of products of Industry 3912, refer to table 6A, product codes 3912011 to 3912051.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Jewelers' Findings and Materials Industry in 1958 totaled \$72 million. This included shipments of jewelers' findings and materials (primary products) valued at \$61 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly sales of scrap) of \$3 million.

This industry's shipments of jewelers' findings and materials (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent. Secondary products of over \$2 million shipped by this industry in 1958 are indicated in a footnote to table 5B.

Industry 3912 shipments of jewelers' findings and materials (primary products) in 1958 represented 96 percent (coverage ratio) of these products valued at \$64 million shipped by all industries. In 1954, the coverage ratio was 91 percent.

### 3913—Lapidary Work and Cutting and Polishing of Diamonds

This industry comprises establishments primarily engaged in all types of lapidary work, and cutting and polishing diamonds. This industry also includes establishments primarily engaged in cutting and polishing other precious stones; recutting and setting stones; preparing jewels for instruments, tools, and for watches and chronometers; and preparing real and imitation stones for settings. For a detailed list of products of Industry 3913, refer to table 6A, product codes 3913011 to 3913031.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Lapidary Work Industry in 1958 totaled \$40 million. This included receipts for lapidary work (primary products) valued at \$38 million, shipments of secondary products valued at less than \$1 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$2 million.

This industry's receipts for lapidary work (primary products consisting of lapidary products and receipts for work done on materials owned by others) in 1958 represented 99 percent (specialization ratio) of its total product



shipments (primary and secondary). The industry specialization ratio in 1954 was 97 percent.

Industry 3913 value of lapidary work (primary products) in 1958 represented 90 percent (coverage ratio) of these products valued at \$42 million reported by all industries. In 1954, the coverage ratio was 91 percent.

Excluded from the \$42 million value of shipments of lapidary work reported by all industries is the value of lapidary work by establishments classified in other industries (i.e., jewelry, etc.), where (1) this activity is combined with other finishing operations in the production of jewelry or other products or (2) this activity is reported as a receipt for contract work. Contract receipts for lapidary work were not separately reported or tabulated. The relatively small amount of lapidary work done in retail stores is also excluded.

#### 3914—Silverware and Plated Ware

This industry comprises establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollow ware, toilet ware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel.

"Flatware" is defined for purposes of the census as all knives, forks, spoons, etc., made wholly of metal, including stainless steel knives, forks, and spoons, and carving sets with metal handles. Knives, forks, spoons, etc., with handles of materials other than metal are included in Industry 3421, Cutlery. For a detailed list of products of

Industry 3914, refer to table 6A, product codes 3914111 to 3914261.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Silverware and Plated Ware Industry in 1958 totaled \$196 million. This included shipments of silverware and plated ware (primary products) valued at \$175 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts (mainly sales of scrap) of \$11 million.

This industry's shipments of silverware and plated ware (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent. Secondary products shipped by this industry in 1958 consisted mainly of aircraft engine parts, more than \$2 million.

While the primary products of the industry include silverware, plated ware, and stainless steel ware; and flatware, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 33 percent of the total industry shipments are represented by plants specializing in 39141, Silverware, plated ware, and stainless steel ware; and 63 percent in 39142, Flatware.

Industry 3914 shipments of silverware and plated ware (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$179 million shipped by all industries. In 1954, the coverage ratio was 97 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## JEWELRY, SILVERWARE, AND PLATED WARE: SIC 391

Value Added by Manufacture by State: 1958



Includes Industries 3911, 3912, 3913 and 3914. See Table 2.

Bureau of the Census - M-58-D391

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3911 (old SIC 3911)	Jewelry, precious metal:														
	1958.....	1,300	1,302	183	21,010	94,503	15,771	30,515	60,228	165,549	159,796	325,542	3,392	95	97
	1954.....	1,323	1,327	204	23,455	90,373	18,440	36,438	58,382	149,600	123,312	273,537	1,836	93	96
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	21,806	89,091	17,547	35,369	62,360	148,051	129,989	278,040	(NA)	(NA)	(NA)
	1947.....	1,342	1,344	254	25,566	76,462	20,610	42,877	54,222	140,478	107,707	248,185	2,674	92	95
	1939.....	(NA)	886	(NA)	15,058	22,388	11,358	(NA)	14,243	36,822	34,597	71,419	(NA)	(NA)	(NA)
	1937 <sup>9</sup> .....	(NA)	789	(NA)	(NA)	(NA)	11,077	(NA)	14,737	36,014	33,512	69,526	(NA)	(NA)	(NA)
3912 (old SIC 3912)	Jewelers' findings and materials:														
	1958.....	249	249	56	5,101	20,669	4,090	8,005	13,990	33,434	38,423	71,878	715	89	96
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,056	22,892	4,867	9,398	15,051	36,654	42,889	80,817	890	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,064	22,215	5,055	9,910	14,937	42,573	44,303	84,307	2,954	(NA)	(NA)
	1954.....	234	234	61	5,371	18,911	4,542	9,281	13,414	31,439	38,686	70,275	1,558	92	91
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,282	23,903	6,444	12,666	18,020	35,001	60,145	95,146	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,922	24,054	6,990	13,487	18,247	40,698	61,438	102,136	(NA)	(NA)	(NA)
	1947.....	180	182	62	6,056	17,350	5,203	11,001	12,389	29,714	43,816	73,530	2,005	92	93
	1939.....	(NA)	82	(NA)	3,412	4,790	2,813	(NA)	2,975	7,996	14,493	22,489	(NA)	(NA)	(NA)
	1937.....	(NA)	71	(NA)	2,949	4,303	2,470	(NA)	3,002	7,110	14,574	21,684	(NA)	(NA)	(NA)
	1935.....	(NA)	73	(NA)	3,099	3,865	2,663	(NA)	2,728	6,179	10,991	17,170	(NA)	(NA)	(NA)
	1933.....	(NA)	60	(NA)	2,115	2,113	1,811	(NA)	1,604	3,747	5,503	9,250	(NA)	(NA)	(NA)
	1931 <sup>9</sup> .....	(NA)	99	(NA)	(NA)	(NA)	1,899	(NA)	2,343	4,855	7,121	11,976	(NA)	(NA)	(NA)
3913 (old SIC 3913)	Lapidary work:														
	1958.....	326	326	18	1,904	8,061	1,629	2,985	6,154	14,605	24,853	40,428	253	99	90
	1954.....	332	333	14	1,759	5,459	1,591	2,757	4,067	11,181	29,136	40,266	118	97	91
	1947.....	270	270	(NA)	1,699	5,524	1,525	3,068	4,532	10,860	19,409	30,269	148	98	98
	1939.....	(NA)	90	(NA)	317	490	267	(NA)	391	1,374	3,755	5,129	(NA)	(NA)	(NA)
	1937.....	(NA)	51	(NA)	271	426	217	(NA)	306	1,048	3,343	4,391	(NA)	(NA)	(NA)
	1935.....	(NA)	60	(NA)	203	295	153	(NA)	201	806	1,244	2,050	(NA)	(NA)	(NA)
	1933.....	(NA)	34	(NA)	136	154	107	(NA)	124	340	483	823	(NA)	(NA)	(NA)
	1931.....	(NA)	53	(NA)	(NA)	(NA)	205	(NA)	340	1,097	1,378	2,475	(NA)	(NA)	(NA)
	1929.....	(NA)	100	(NA)	629	1,399	506	(NA)	1,002	3,707	8,235	11,942	(NA)	(NA)	(NA)
	1927.....	(NA)	92	(NA)	681	1,587	547	(NA)	1,221	3,219	9,133	12,352	(NA)	(NA)	(NA)
	1925.....	(NA)	83	(NA)	692	1,608	589	(NA)	1,285	2,850	7,273	10,123	(NA)	(NA)	(NA)
	1923.....	(NA)	87	(NA)	768	1,622	644	(NA)	1,286	3,243	5,887	9,130	(NA)	(NA)	(NA)
	1921.....	(NA)	64	(NA)	516	1,112	399	(NA)	738	1,505	2,840	4,345	(NA)	(NA)	(NA)
	1919.....	(NA)	124	(NA)	1,322	3,536	1,155	(NA)	2,838	10,688	19,363	30,051	(NA)	(NA)	(NA)
	1914.....	(NA)	89	(NA)	688	807	584	(NA)	641	1,419	3,941	5,360	(NA)	(NA)	(NA)
	1909.....	(NA)	77	(NA)	796	1,084	627	(NA)	889	2,613	6,560	9,173	(NA)	(NA)	(NA)
	1904.....	(NA)	54	(NA)	609	766	507	(NA)	657	1,423	6,224	7,647	(NA)	(NA)	(NA)
	1899.....	(NA)	60	(NA)	541	550	498	(NA)	499	1,130	4,656	5,786	(NA)	(NA)	(NA)
3914 (old SIC 3914)	Silverware and plated ware:														
	1958.....	198	209	87	13,852	62,318	11,226	21,851	47,602	109,728	85,185	196,055	2,478	95	98
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,358	67,244	12,690	24,605	52,407	111,458	83,386	193,782	(NA)	89	96
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	15,881	68,598	13,077	26,309	53,445	117,762	94,180	212,277	4,025	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,965	71,134	14,036	28,615	55,169	116,515	99,849	211,703	3,987	(NA)	(NA)
	1954.....	190	207	97	17,345	68,064	14,379	28,957	53,876	109,836	105,711	217,183	3,826	91	97
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,087	72,524	14,782	31,006	57,128	114,832	103,089	217,921	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	19,151	71,613	15,837	32,761	55,080	118,318	100,915	219,233	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,504	78,296	18,889	37,720	60,973	130,640	117,332	247,972	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,192	81,795	20,184	42,810	64,353	139,487	123,085	262,572	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,998	77,944	20,360	42,495	61,192	124,108	103,192	227,300	(NA)	(NA)	(NA)
	1947.....	221	236	(NA)	21,848	69,149	18,791	41,723	56,363	123,311	98,273	221,584	5,358	98	97
	1939.....	(NA)	153	(NA)	(NA)	(NA)	13,166	(NA)	16,574	39,628	26,415	66,043	(NA)	(NA)	(NA)
	1937.....	(NA)	136	(NA)	13,248	17,496	11,361	(NA)	13,790	34,063	22,670	56,733	(NA)	(NA)	(NA)
	1935.....	(NA)	139	(NA)	11,865	14,240	10,194	(NA)	11,078	28,074	15,298	43,372	(NA)	(NA)	(NA)
	1933.....	(NA)	126	(NA)	10,340	9,911	9,177	(NA)	8,229	21,908	12,425	34,333	(NA)	(NA)	(NA)
	1931.....	(NA)	163	(NA)	(NA)	(NA)	11,077	(NA)	12,713	34,023	11,792	45,815	(NA)	(NA)	(NA)
	1929.....	(NA)	179	(NA)	18,697	30,278	15,735	(NA)	22,578	58,996	26,886	85,882	(NA)	(NA)	(NA)
	1927.....	(NA)	178	(NA)	19,558	30,985	16,719	(NA)	23,945	56,047	31,377	87,424	(NA)	(NA)	(NA)
	1925.....	(NA)	183	(NA)	19,827	30,433	16,877	(NA)	23,844	53,685	33,177	86,862	(NA)	(NA)	(NA)
	1923.....	(NA)	181	(NA)	20,182	29,691	17,090	(NA)	22,971	50,432	30,673	81,105	(NA)	(NA)	(NA)
	1921.....	(NA)	169	(NA)	17,573	23,381	14,822	(NA)	17,815	36,981	21,374	58,355	(NA)	(NA)	(NA)
	1919.....	(NA)	167	(NA)	18,976	24,039	15,945	(NA)	18,273	39,934	30,827	70,761	(NA)	(NA)	(NA)
	1914.....	(NA)	180	(NA)	18,344	13,303	15,787	(NA)	9,796	21,691	16,580	38,271	(NA)	(NA)	(NA)
	1909.....	(NA)	183	(NA)	18,660	13,027	16,610	(NA)	10,282	23,897	18,332	42,229	(NA)	(NA)	(NA)
	1904.....	(NA)	158	(NA)	16,185	10,356	14,861	(NA)	8,625	18,381	14,459	32,840	(NA)	(NA)	(NA)
	1899.....	(NA)	169	(NA)	13,334	7,988	12,205	(NA)	6,531	14,455	11,659	26,114	(NA)	(NA)	(NA)

Footnotes continued on next page.



Footnotes for table 1-39A

NA Not available.

<sup>1</sup> Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>2</sup> A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>3</sup> The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>4</sup> For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3911	145,567	3913	10,608
3912	31,369	3914	110,034

<sup>5</sup> For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3911	142,470	112,580	3913	22,653	22,955
3912	37,691	37,955	3914	81,716	101,049

<sup>6</sup> For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3911	303,052	258,147	3913	38,312	33,564
3912	70,929	69,325	3914	192,194	211,083

<sup>7</sup> The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>8</sup> The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>9</sup> The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup> No comparable data available for earlier years.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3911	Jewelry, precious metal, total.....	1,302	183	21,010	94,503	15,771	30,515	60,228	165,549	325,542	3,392	23,455	145,567	25,566
	New England.....	173	57	6,787	27,275	5,221	10,336	16,560	41,451	68,418	( <sup>2</sup> )	8,191	41,077	9,569
	Massachusetts...	55	21	3,293	15,328	2,326	4,976	8,273	20,014	32,827	( <sup>2</sup> )	3,091	15,160	3,465
	Rhode Island...	111	35	3,448	11,779	2,856	5,285	8,151	21,132	35,134	( <sup>2</sup> )	5,034	25,692	5,527
	Middle Atlantic..	825	92	10,086	48,576	7,574	14,377	31,511	85,386	189,525	1,674	10,707	73,479	11,626
	New York.....	699	64	7,120	34,144	5,335	9,852	22,301	63,227	150,850	1,488	7,456	52,922	7,269
	New Jersey.....	76	24	2,630	12,975	1,991	4,070	8,192	19,642	33,312	( <sup>2</sup> )	2,849	18,259	3,777
	Pennsylvania...	50	4	336	1,457	248	455	1,018	2,517	5,363	( <sup>2</sup> )	402	2,297	580
	East North Central.....	103	17	1,757	8,609	1,196	2,369	5,419	16,742	31,039	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	35	6	391	2,233	279	559	1,397	3,782	8,545	( <sup>2</sup> )	639	4,716	640
	Michigan.....	15	4	277	1,366	158	304	664	2,618	4,850	(D)	328	2,403	364
	West North Central.....	22	4	756	3,813	518	1,063	2,219	9,242	14,998	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South.....	38	4	512	1,645	355	695	1,056	3,130	4,595	( <sup>2</sup> )	560	1,937	416
	Mountain.....	27	5	453	1,333	371	703	986	1,978	3,717	( <sup>2</sup> )	395	1,640	295
	Pacific.....	114	4	659	3,252	536	972	2,477	7,620	13,250	( <sup>2</sup> )	776	6,036	680
	California.....	96	4	579	2,855	470	855	2,170	6,987	12,312	( <sup>2</sup> )	712	5,633	580
3912	Jewelers' findings and materials, total.....	249	56	5,101	20,669	4,090	8,005	13,990	33,434	71,878	715	5,371	31,369	6,056
	New England.....	170	44	4,182	16,730	3,357	6,582	11,360	26,363	51,051	580	...	...	...
	Massachusetts...	23	10	1,378	6,125	1,015	2,101	3,868	9,678	21,071	( <sup>2</sup> )	1,381	10,157	1,829
	Middle Atlantic..	64	12	865	3,754	690	1,351	2,477	6,749	19,641	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	4,227
	New York.....	41	5	355	1,521	282	551	973	3,052	11,583	( <sup>2</sup> )	592	3,661	
	East North Central.....	6	...	24	96	18	31	76	110	641	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	
	South and West...	9	...	30	89	25	41	77	212	545	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	
3913	Lapidary work, total.....	326	18	1,904	8,061	1,629	2,985	6,154	14,605	40,428	( <sup>2</sup> )	1,759	10,608	1,699
	New England.....	45	3	269	792	230	399	519	1,358	2,013	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	120
	Rhode Island...	38	2	186	460	157	262	292	788	1,261	( <sup>2</sup> )	168	475	120
	Middle Atlantic..	229	12	1,171	5,627	1,000	1,831	4,373	11,048	32,891	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,579
	New York.....	215	10	975	4,844	828	1,537	3,774	9,951	30,514	( <sup>2</sup> )	985	7,135	
	North Central....	23	2	232	813	183	348	506	1,015	2,009	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	
	South and West...	29	1	232	829	216	407	756	1,184	3,515	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	
3914	Silverware and plated ware, total	209	87	13,852	62,318	11,226	21,851	47,602	109,728	196,055	2,478	17,345	110,034	21,848
	New England.....	68	35	8,026	36,770	6,527	12,884	28,632	69,031	123,920	1,175	9,454	63,027	12,526
	Connecticut....	22	14	3,947	19,196	3,396	6,833	16,288	34,621	67,186	( <sup>2</sup> )	5,118	35,377	7,412
	Middle Atlantic..	93	36	4,215	18,755	3,452	6,621	14,410	30,959	53,550	1,082	5,681	33,923	7,371
	New York.....	62	24	3,363	15,104	2,753	5,247	11,678	24,724	42,544	988	4,888	30,038	6,214
	New Jersey.....	22	9	727	3,148	600	1,185	2,410	5,118	9,175	(D)	678	3,201	924
	Pennsylvania...	9	3	125	503	99	189	322	1,117	1,831	(D)	114	683	233
	North Central....	20	5	885	3,782	674	1,216	2,416	6,767	11,185	r( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	10	3	589	2,614	444	811	1,596	3,958	5,972	( <sup>2</sup> )	724	4,207	423
	South Atlantic...	10	5	379	1,398	302	589	1,010	473	3,622	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	West.....	18	6	347	1,613	271	541	1,134	2,498	3,778	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	California.....	14	5	292	1,361	227	461	965	2,065	3,140	( <sup>2</sup> )	197	1,157	365

Note: Detailed figures may not add to the totals because of independent rounding. <sup>1</sup>Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3911, Jewelry, precious metal: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Vermont, 1 (1-19); Connecticut, 4 (20-99); East North Central—Ohio, 37 (250-499); Indiana, 11 (500-999); Wisconsin, 5 (20-99); West North Central—Minnesota, 9 (500-999); Iowa, 2 (1-19); Missouri, 6 (20-99); South Dakota, 3 (20-99); Nebraska, 2 (1-19); South—Maryland, 1 (20-99); District of Columbia, 3 (1-19); Virginia, 1 (1-19); North Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 1 (1-19); Kentucky, 4 (20-99); Tennessee, 2 (20-99); Louisiana, 4 (1-19); Oklahoma, 4 (20-99); Texas, 15 (250-499); Mountain—Montana, 2 (1-19); Idaho, 1 (1-19); Colorado, 8 (20-99); New Mexico, 6 (100-249); Arizona, 7 (20-99); Utah, 3 (100-249); Pacific—Washington, 14 (20-99); Oregon, 4 (20-99).

SIC 3912, Jewelers' findings and materials: New England—New Hampshire, 3 (20-99); Rhode Island, 144 (2,763); Middle Atlantic—New Jersey, 20 (250-499); Pennsylvania, 3 (1-19); East North Central—Illinois, 5 (20-99); Wisconsin, 1 (1-19); South and West—Maryland, 1 (1-19); North Carolina, 1 (1-19); Louisiana, 1 (1-19); Texas, 1 (1-19); Idaho, 1 (1-19); Washington, 1 (1-19); California, 3 (1-19).

SIC 3913, Lapidary work: New England—Massachusetts, 6 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 7 (100-249); Pennsylvania, 7 (20-99); North Central—Ohio, 3 (1-19); Indiana, 1 (1-19); Illinois, 6 (20-99); Michigan, 6 (20-99); Wisconsin, 1 (1-19); Minnesota, 2 (1-19); Missouri, 3 (1-19); North Dakota, 1 (100-249); South and West—Maryland, 1 (1-19); Florida, 1 (1-19); Tennessee, 1 (1-19); Louisiana, 1 (1-19); Texas, 1 (100-249); Idaho, 2 (1-19); New Mexico, 2 (1-19); Arizona, 3 (1-19); Washington, 1 (1-19); Oregon, 1 (1-19); California, 15 (20-99).

SIC 3914, Silverware and plated ware: New England—New Hampshire, 1 (1-19); Massachusetts, 35 (2,635); Rhode Island, 10 (1,443); North Central—Ohio, 3 (100-249); Indiana, 2 (20-99); Michigan, 1 (1-19); Minnesota, 1 (1-19); Iowa, 1 (1-19); Missouri, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 5 (100-249); District of Columbia, 1 (1-19); Virginia, 1 (20-99); North Carolina, 1 (20-99); Florida, 2 (1-19); West—Nevada, 1 (1-19); Washington, 1 (1-19); Oregon, 2 (20-99).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 3.—Detailed Statistics for the United States: 1958

Item	Jewelry, precious metal (SIC 3911)	Jewelers' findings and materials (SIC 3912)	Lapidary work (SIC 3913)	Silverware and plated ware (SIC 3914)
Primary product specialization ratio <sup>1</sup> .....	95	89	99	95
Coverage ratio <sup>2</sup> .....	97	96	90	98
Number of establishments, total.....	1,302	249	326	209
With 1-19 employees.....	1,119	193	308	122
With 20-99 employees.....	152	47	14	60
With 100 employees or more.....	31	9	4	27
Proprietors and working partners.....Number..	1,071	142	357	84
All employees:				
Number (average for the year).....	21,010	5,101	1,904	13,852
Payroll.....\$1,000..	94,503	20,669	8,061	62,318
Production workers:				
Number (average for the year).....	15,771	4,090	1,629	11,226
March.....	15,290	3,904	1,601	11,297
May.....	14,807	3,866	1,573	11,050
August.....	16,298	4,201	1,644	11,016
November.....	17,046	4,477	1,702	11,614
Man-hours.....1,000..	30,515	8,005	2,985	21,851
January-March.....do....	7,305	1,867	637	5,377
April-June.....do....	7,072	1,863	576	5,503
July-September.....do....	7,020	1,923	590	4,789
October-December.....do....	8,469	2,238	948	6,127
Wages.....\$1,000..	60,228	13,990	6,154	47,602
Cost of materials, etc., total.....do....	159,796	38,423	24,853	85,185
Materials, parts, containers, and supplies consumed.....do....	132,847	35,456	21,235	77,700
Cost of resales.....do....	17,326	732	2,200	3,469
Fuels consumed.....do....	424	247	41	1,111
Electricity purchased.....do....	1,009	469	60	1,316
Contract work.....do....	8,190	1,519	1,317	1,589
Value of shipments (including resales), total.....do....	325,542	71,878	40,428	196,055
Value of resales.....do....	22,490	949	2,116	3,861
Value added by manufacture, adjusted.....do....	165,549	33,434	14,605	109,728
Manufacturers' inventories:				
Beginning of year, total.....do....	79,435	12,759	10,944	48,238
Finished products.....do....	35,182	4,744	7,794	21,090
Work-in-process.....do....	16,187	4,134	1,240	16,236
Materials, supplies, fuel, etc.....do....	28,066	3,882	1,910	10,912
End of year, total.....do....	70,463	12,978	9,545	47,652
Finished products.....do....	33,785	4,416	6,619	15,485
Work-in-process.....do....	17,387	4,441	1,445	20,699
Materials, supplies, fuel, etc.....do....	19,291	4,122	1,481	11,468
Expenditures for plant and equipment, total.....do....	3,615	785	r <sup>(3)</sup>	2,647
New, total.....do....	3,392	715	r <sup>(3)</sup>	2,478
New structures and additions to plant.....do....	1,671	131	r <sup>(3)</sup>	363
New machinery and equipment.....do....	1,721	583	r <sup>(3)</sup>	2,115
Used plant and equipment.....do....	223	70	r <sup>(3)</sup>	169

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3911	Jewelry, precious metal:											
	Number of establishments.....	1,302	705	234	180	108	44	20	5	5	1	...
	All employees:											
	Number.....	21,010	1,403	1,558	2,461	3,326	3,040	2,996	1,593	4,633	(D)	...
	Payroll.....\$1,000..	94,503	5,345	6,968	10,988	15,143	12,942	14,182	5,999	22,936	(D)	...
	Value added, adjusted..do....	165,549	13,945	11,955	18,372	26,503	20,412	25,684	9,338	39,340	(D)	...
	Value of shipments.....do....	325,542	31,164	29,459	41,762	50,272	39,315	59,294	14,702	59,574	(D)	...
	Capital expend., new...do....	3,392	800	(1)	(1)	(1)	(1)	(1)	(1)	1,031	(D)	...
3912	Jewelers' findings and materials:											
	Number of establishments.....	249	111	49	33	35	12	7	1	1	...	...
	All employees:											
	Number.....	5,101	227	306	423	1,065	825	2,255	(D)	(D)	...	...
	Payroll.....\$1,000..	20,669	614	1,019	1,509	4,408	3,548	9,571	(D)	(D)	...	...
	Value added, adjusted..do....	33,434	1,485	1,650	2,734	6,927	5,612	15,026	(D)	(D)	...	...
	Value of shipments.....do....	71,878	3,987	3,036	6,113	13,032	16,130	29,580	(D)	(D)	...	...
	Capital expend., new...do....	715	(1)	(1)	(1)	(1)	(1)	(1)	(D)	(D)	...	...
3913	Lapidary work:											
	Number of establishments.....	326	239	54	15	12	2	4	...	...	...	...
	All employees:											
	Number.....	1,904	381	357	206	459	(D)	501	...	...	...	...
	Payroll.....\$1,000..	8,061	1,397	1,387	904	2,382	(D)	1,991	...	...	...	...
	Value added, adjusted..do....	14,605	4,443	2,032	1,350	4,037	(D)	2,743	...	...	...	...
	Value of shipments.....do....	40,428	13,396	7,459	5,244	9,851	(D)	4,478	...	...	...	...
	Capital expend., new...do....	(1)	(1)	(1)	(1)	(1)	(D)	(1)	...	...	...	...
3914	Silverware and plated ware:											
	Number of establishments.....	209	68	25	29	45	15	17	3	5	2	...
	All employees:											
	Number.....	13,852	147	173	419	1,440	1,078	2,552	1,084	6,959	(D)	...
	Payroll.....\$1,000..	62,318	513	654	1,869	6,015	4,509	10,552	5,286	32,920	(D)	...
	Value added, adjusted..do....	109,728	1,186	1,232	2,821	8,598	7,489	18,816	11,114	58,472	(D)	...
	Value of shipments.....do....	196,055	2,134	2,198	6,372	18,083	11,743	32,128	21,152	102,245	(D)	...
	Capital expend., new...do....	2,478	(1)	(1)	(D)	(1)	(1)	(1)	(1)	1,510	(D)	...

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
Col. B Col. B+C (percent)	Col. G Col. F (percent)									
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)	(\$1,000)	(\$1,000)	(\$1,000)	(percent)		
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)		
3911	Jewelry, precious metal.....1958..	325,542	279,275	14,711	31,556	95	287,148	279,275	7,873	97
	1954..	273,537	229,933	18,211	25,393	93	238,526	229,933	8,593	96
3912	Jewelers' findings and									
	materials.....1958..	71,878	61,485	7,612	2,781	89	63,790	61,485	2,305	96
	1954..	70,275	61,945	5,213	3,117	92	68,092	61,945	6,147	91
3913	Lapidary work.....1958..	40,428	37,518	520	2,390	99	41,770	37,518	4,252	90
	1954..	40,266	32,483	914	6,869	97	35,641	32,483	3,158	91
3914	Silverware and plated ware.....1958..	196,055	174,882	10,165	11,008	95	178,765	174,882	3,883	98
	1954..	217,183	181,533	18,920	16,730	91	188,095	181,533	6,562	97

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Jewelry, precious metal industry	Jewelry, precious metal (SIC 3911)	Other industries	All industries	Prod. class code	Lapidary work industry	Lapidary work (SIC 3913)	Other industries	All industries
	Total shipments and receipts of the industry.....	325,542	xxx	xxx		Total shipments and receipts of the industry.....	40,428	xxx	xxx
39111	Primary products.....	279,275	7,873	287,148	39130	Lapidary work, and cutting and polishing diamonds.....	37,518	4,252	41,770
39112	Jewelry made of platinum metals and karat gold.....	192,922	2,312	195,234		Secondary products.....	520	xxx	xxx
39110	Jewelry made of precious metals, except platinum and karat gold..	68,720	<sup>1</sup> 5,545	74,265		Miscellaneous receipts.....	2,390	xxx	xxx
	Jewelry, precious metal, nsk....	17,633	16	17,649		Sales of products bought and resold without further manufacture.....	2,116	xxx	xxx
	Secondary products.....	14,711	xxx	xxx		Other miscellaneous receipts.....	274	xxx	xxx
39610	Costume jewelry and costume novelties, except precious metal	5,897	xxx	xxx					
	Other secondary products.....	28,814	xxx	xxx	Prod. class code	Silverware and plated ware industry	Silverware and plated ware (SIC 3914)	Other industries	All industries
	Miscellaneous receipts.....	31,556	xxx	xxx		Total shipments and receipts of the industry.....	196,055	xxx	xxx
	Contract and commission work....	2,938	xxx	xxx	39141	Primary products.....	174,882	3,883	178,765
	Receipts from sales of scrap.....	6,002	xxx	xxx		Silverware, plated ware, and stainless steel ware.....	72,248	2,040	74,288
	Sales of products bought and resold without further manufacture.....	22,490	xxx	xxx	39142	Flatware.....	95,493	1,582	97,075
	Other miscellaneous receipts.....	126	xxx	xxx	39140	Silverware and plated ware, nsk..	7,141	261	7,402
Prod. class code	Jewelers' findings and materials industry	Jewelers' findings and materials (SIC 3912)	Other industries	All industries		Secondary products.....	<sup>4</sup> 10,165	xxx	xxx
	Total shipments and receipts of the industry.....	71,878	xxx	xxx		Miscellaneous receipts.....	11,008	xxx	xxx
39120	Jewelers' findings and materials...	61,485	2,305	63,790		Contract work.....	942	xxx	xxx
	Secondary products.....	<sup>3</sup> 7,612	xxx	xxx		Sales of scrap.....	6,205	xxx	xxx
	Miscellaneous receipts.....	2,781	xxx	xxx		Sales of products bought and resold without further manufacture.....	3,861	xxx	xxx
	Contract work.....	628	xxx	xxx					
	Sales of scrap.....	1,204	xxx	xxx					
	Sales of products bought and resold without further manufacture.....	949	xxx	xxx					

<sup>1</sup>Includes shipments of \$3,930 thousand by Industry 3961, Costume jewelry.

<sup>2</sup>Includes product class 27530, Engraving and plate printing, which totals more than \$2 million, but is withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes product class 33560, Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum), which totals more than \$2 million, but is withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes product class 37224, Aircraft engine parts, which totals more than \$2 million, but is withheld to avoid disclosing individual company figures.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
		Quantity (1,000 pieces)	Value (\$1,000)	Quantity (1,000 pieces)	Value (\$1,000)
3911---	Jewelry (precious metal), total.....		287,148		238,526
39111--	Jewelry made of platinum metals and karat gold.....		195,234		155,476
	Rings, complete:				
3911112	Wedding rings.....		28,380	}	68,858
3911113	Other rings.....		56,788		
3911115	Ring mountings, for sale separately.....		21,752		17,026
3911131	Women's and children's jewelry (excluding watch attachments) <sup>1</sup> .....		39,839		16,349
3911141	Watch attachments (bracelets for watches).....		6,020		5,934
3911151	Fraternal, college, and school jewelry and emblems, including military insignia (excluding rings).....		9,082		8,924
3911198	Other jewelry worn or carried about the person <sup>2</sup> .....		12,475		6,148
3911100	Jewelry made of platinum metals and karat gold, nsk.....		20,898		32,237
39112--	Jewelry made of precious metals except platinum and karat gold.....		74,265		72,635
	Jewelry—gold filled, rolled gold plate, palladium filled, rolled palladium plate, and sterling silver:				
3911211	Rings and ring mountings.....		5,604		7,785
3911221	Men's jewelry (excluding watch attachments) <sup>3</sup> .....		7,037		11,160
3911231	Women's and children's jewelry (excluding watch attachments) <sup>1</sup> .....		21,723		14,975
3911241	Watch attachments (bracelets for watches).....		24,844		25,360
3911298	Other jewelry worn or carried about the person <sup>4</sup> .....		9,855		9,883
3911200	Jewelry made of gold filled etc., nsk.....		5,202		3,472
3911000	Jewelry (precious metal), not specified by kind of material or type of jewelry.....		17,649		10,415
3912---	Jewelers' findings.....		63,790		68,092
3912011	Jewelers' findings, such as joints, pins, clasps, spring rings, ring blanks, and other unassembled parts.....		31,046		25,928
3912031	Machine chain.....		10,900		10,707
3912051	Stock shop products, such as flat stock, wire and tubing.....		12,683		31,457
3912000	Jewelers' findings, nsk.....		9,161		...
3913---	Lapidary work and cutting and polishing diamonds, total.....		<sup>5</sup> 41,770		<sup>5</sup> 35,641
3913011	Diamonds for jewelry purposes.....		19,340		18,386
3913015	Diamonds for industrial purposes.....		4,858		5,059
3913031	Other natural precious, semiprecious and synthetic stones (including the drilling of pearl).....		2,532		3,552
3913000	Lapidary work, nsk.....		<sup>6</sup> 15,040		<sup>6</sup> 8,644
Total shipments including interplant transfers					
		1958		1954	
		Quantity (1,000 pieces)	Value (\$1,000)	Quantity (1,000 pieces)	Value (\$1,000)
3914---	Silverware and plated ware, total.....	xxx	178,765	xxx	188,095
39141--	Silverware, plated ware, and stainless steel ware.....	xxx	74,288	xxx	62,838
	Hollow ware, including toiletware, ecclesiastical ware, novelties, trophies, baby goods, and other plated ware:				
3914111	Sterling silver.....	xxx	19,554	xxx	18,658
3914111	Elec osilver plated.....	xxx	31,206	xxx	20,326
3914151	Stainless steel.....	xxx	2,401	}	23,854
3914161	Unplated hollow ware of other metals and hollow ware plated with metals other than silver.....	xxx	21,127		
39142--	Flatware <sup>7</sup> .....	xxx	97,075	xxx	120,868
3914211	Sterling silver.....	11,737	37,356	15,935	42,170
	Electrosilver plated:				
3914231	Hotel patterns.....	}	72,947	27,559	14,164
3914235	Commercial patterns.....			159,962	3,282
3914251	Stainless steel.....	146,132	31,189	}	25,719
3914261	Unplated flatware of other metals and flatware plated with metals other than silver.....	xxx	971		
3914000	Silverware and plated ware, nsk.....	xxx	7,402	xxx	4,389

<sup>1</sup>Includes necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc.<sup>2</sup>Includes men's jewelry (collar and cuff buttons, studs, watch chains, etc.), religious jewelry (rosaries, chaplets, crosses, etc.), cigar and cigarette cases and lighters, compacts, vanity cases, etc.<sup>3</sup>Includes collar and cuff buttons, studs, watch chains, money clips, identification bracelets, scarf pins, tie and collar holders, etc.<sup>4</sup>Includes fraternal, college, and school jewelry and emblems (excluding rings), military insignia, religious jewelry (rosaries, chaplets, crosses, etc.), cigar and cigarette cases and lighters, compacts, vanity cases, etc.<sup>5</sup>Includes receipts for work done on materials owned by others.<sup>6</sup>Includes lapidary work done on materials owned by others for which type of stone was not reported.<sup>7</sup>Includes all knives, forks, spoons, etc., made wholly of metal; this also includes stainless steel knives, forks, spoons, and carving sets with metal handles.



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
<u>Jewelry made of platinum metals and karat gold (39111):</u>			<u>Jewelry made of platinum metals and karat gold (39111)--Continued</u>	1958 <sup>1</sup>	1954	<u>Silverware, plated ware, and stainless steel ware (39141):</u>	1958 <sup>1</sup>
United States, total:			All other regions.....	11,277	( <sup>2</sup> )	United States, total.....	74,288
1958.....	195,234		California.....	8,987	4,869	Northeast.....	64,397
1954.....	155,476					Massachusetts.....	17,420
1947.....	133,254		<u>Jewelry made of precious metals, except platinum and karat gold (39112):</u>	Value of shipments		Connecticut.....	18,324
	1958 <sup>1</sup>	1954	United States, total:			New York.....	17,375
New England.....	25,429	18,914	1958.....		74,265	New Jersey.....	6,743
Massachusetts.....	16,535	12,475	1954.....		72,635	All other regions.....	9,891
Middle Atlantic.....	129,467	100,632	1947.....		81,539	Illinois.....	5,107
New York.....	110,046	84,592		1958 <sup>1</sup>	1954	California.....	1,928
New Jersey.....	16,196	14,301	Northeast.....	67,934	65,445	<u>Flatware (39142):</u>	
Pennsylvania.....	3,225	1,739	Massachusetts.....	11,991	( <sup>2</sup> )	United States, total.....	97,075
North Central.....	29,061	28,265	Rhode Island.....	26,878	29,737	Northeast.....	93,221
Ohio.....	2,841	3,291	New York.....	15,891	14,676	Massachusetts.....	15,630
Illinois.....	6,476	7,353	New Jersey.....	12,014	10,810	Connecticut.....	41,863
Michigan.....	2,709	( <sup>2</sup> )	All other regions.....	6,331	( <sup>2</sup> )	New Jersey.....	1,047
			California.....	1,333	2,496		

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 39111, Indiana and Minnesota; 39112, Texas; 39141, Rhode Island and Ohio; 39142, Rhode Island, New York, and Maryland.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, components, parts, containers and supplies, total.....	.....	xxx	77,700	xxx	97,326
	Mill shapes and forms (except castings):					
	Carbon steel:					
331212	Sheet and strip.....	short tons...	3,284	719	4,080	844
331211	All other carbon steel mill shapes and forms.....	...do.....	(NA)	362	1,536	386
331217						
331219						
331221	Alloy steel, except stainless.....	...do.....	(NA)	156	(NA)	252
331225	Stainless steel.....	...do.....	9,021	8,980	7,498	6,067
331231						
	Copper and copper-base alloy:					
335119	Mill shapes and forms, (plate, sheet, tubing, bar, mechanical wire, etc.)....	1,000 lbs....	8,341	5,535	28,167	13,946
336121	Castings, rough and semi-finished <sup>1</sup> .....	...do.....	795	518	1,118	464
970099	All other materials and components, parts, containers and supplies consumed.....	.....	xxx	55,562	xxx	275,367
973000	Materials, parts, containers and supplies, nsk.....	.....	xxx	5,868	xxx	( <sup>2</sup> )

NA Not available.

<sup>1</sup>Does not include castings produced and consumed in the same establishment.

<sup>2</sup>For 1954, Code 970099 includes a small value of materials "not specified by kind" as distinguished from "all other materials."

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3911	JEWELRY, PRECIOUS METAL (entire industry).....	1,302	21,010	94,503	15,771	30,515	60,228	165,549	159,796	325,542	3,392
	Establishments with:										
	90% or more specialization.....	1,162	15,668	70,595	11,917	22,641	46,185	131,772	139,017	271,143	3,037 <sup>(1)</sup>
	75-89% specialization.....	35	3,666	17,730	2,609	5,488	10,106	23,723	14,165	37,721	
39111	Jewelry made of platinum metals and karat gold (primary product class of estab.).....	789	11,839	60,725	8,335	16,414	36,697	107,048	119,026	226,178	2,183
	Establishments with:										
	90% or more specialization....	702	8,475	43,338	6,091	11,573	27,300	83,300	100,577	184,404	1,902 <sup>(1)</sup>
	75-89% specialization.....	31	874	4,241	589	1,153	2,495	6,055	5,534	11,381	
39112	Jewelry made of precious metals except platinum and karat gold (primary product class of estab.)..	235	7,855	28,886	6,321	12,140	19,563	48,806	30,919	79,968	( <sup>1</sup> )
	Establishments with:										
	90% or more specialization....	167	4,343	15,482	3,573	6,787	10,639	28,182	18,535	46,553	( <sup>1</sup> )
	75-89% specialization.....	29	1,680	6,524	1,393	2,669	4,684	9,570	5,604	15,560	( <sup>1</sup> )
3914	SILVERWARE AND PLATED WARE (entire industry).....	209	13,852	62,318	11,226	21,851	47,602	109,728	85,185	196,055	2,478
	Establishments with:										
	90% or more specialization.....	182	11,701	53,200	9,521	18,721	40,801	91,636	72,640	167,105	2,023
39141	Silverware, plated ware and stainless steel ware (primary product class of estab.).....	83	5,138	22,898	4,227	8,409	17,477	38,649	26,940	64,576	743
	Establishments with:										
	90% or more specialization....	69	4,081	18,433	3,367	6,793	14,151	31,305	21,577	52,047	633
	75-89% specialization.....	8	524	2,095	411	741	1,432	3,416	2,127	5,581	(D)
39142	Flatware (primary product class of estab.).....	32	8,063	37,085	6,442	12,469	28,204	66,569	54,227	123,078	1,633
	Establishments with:										
	90% or more specialization....	20	2,425	11,248	2,093	4,155	9,375	19,152	20,593	41,925	( <sup>1</sup> )

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> Less than \$500 thousand.



# Musical Instruments and Parts; Toys, Sporting and Athletic

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

3931—Musical Instruments and Parts

3941—Games and Toys, Except Dolls and Children's Vehicles

3942—Dolls

3943—Children's Vehicles, Except Bicycles

3949—Sporting and Athletic Goods, N.E.C.

## 3931—Musical Instruments and Parts

This industry comprises establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and materials for musical instruments. For a detailed list of products of Industry 3931, refer to table 6A, product codes 3931111 to 3931498.

This is a new industry according to the 1957 edition of the Standard Industrial Classification Manual, comprising the following industries based on the old Standard Industrial Classification: Industry 3931, Pianos; Industry 3932, Organs; Industry 3933, Piano and Organ Parts; Industry 3939, Musical Instruments, N.E.C.

Value of shipments and other receipts of the Musical Instruments and Parts Industry in 1958 totaled \$259 million. This included shipments of musical instruments and parts (primary products), valued at \$229 million, shipments of other products (secondary products) valued at \$9 million, and miscellaneous receipts of \$21 million.

This industry's shipments of musical instruments and parts (primary products) in 1958 represented 96 percent (specialization ratio) of its total product shipments (primary and secondary).

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the product classes. The extent of this specialization is indicated in table 8. Approximately 31 percent of the total industry shipments are represented by plants specializing in pianos; and 30 percent in organs.

Industry 3931 shipments of musical instruments and parts (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$238 million shipped by all industries.

## 3941—Games and Toys, Except Dolls and Children's Vehicles

This industry comprises establishments primarily engaged in manufacturing indoor games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys. Establishments primarily engaged in manufacturing dolls are classified in Industry 3942; children's outdoor

wheel goods and vehicles, except bicycles, in Industry 3943; and sporting and athletic goods for children and adults in Industry 3949. For a detailed list of products of Industry 3941, refer to table 6A, product codes 3941011 to 3941098.

The code number as well as the definition of this industry were unchanged in the 1957 Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Games and Toys, N.E.C., Industry in 1958 totaled \$544 million. This included shipments of games and toys (primary products) valued at \$483 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts of \$26 million.

This industry's shipments of games and toys (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 95 percent. Secondary products shipped by this industry in 1958 consisted mainly of plastics products, n.e.c., \$7 million; and sporting and athletic goods, \$3 million.

Industry 3941 shipments of games and toys (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$522 million shipped by all industries. In 1954, the coverage ratio was 89 percent. Other industries shipping games and toys (primary products) consisted mainly of Industry 3079, Plastics Products, N.E.C., \$8 million, and Industry 3943, Children's Vehicles, \$3 million.

## 3942—Dolls

This industry comprises establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry. For a detailed list of products of Industry 3942, refer to table 6A, product codes 3942011 to 3942051.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Dolls Industry in 1958 totaled \$162 million. This included shipments of dolls (primary products), valued at \$153 million, shipments of other products (secondary products) valued at \$3 million, and miscellaneous receipts of \$6 million.

This industry's shipments of dolls (primary products) in 1958 represented 98 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent.

Industry 3942 shipments of dolls (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$162 million shipped by all industries. In 1954, the coverage ratio was 97 percent.

## 3943—Children's Vehicles, Except Bicycles

This industry comprises establishments primarily engaged in manufacturing baby carriages, strollers, and



gocarts; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles (Industry 3751). For a detailed list of products of Industry 3943, refer to table 6A, product codes 3943011 to 3943098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Children's Vehicles Industry in 1958 totaled \$70 million. This included shipments of children's vehicles (primary products), valued at \$57 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts of \$3 million.

This industry's shipments of children's vehicles (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 76 percent.

Industry 3943 shipments of children's vehicles (primary products) in 1958 represented 78 percent (coverage ratio) of these products valued at \$73 million shipped by all industries. In 1954, the coverage ratio was 90 percent.

#### 3949--Sporting and Athletic Goods, N.E.C.

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods, n.e.c., such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates

and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in Major Group 23, small arms ammunition in Industry 1961, and firearms in Industry 1951. For a detailed list of products of Industry 3949, refer to table 6A, product codes 3949114 to 3949298.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Sporting and Athletic Goods, N.E.C., Industry in 1958 totaled \$578 million. This included shipments of sporting and athletic goods (primary products), valued at \$473 million, shipments of other products (secondary products) valued at \$67 million, and miscellaneous receipts of \$38 million.

This industry's shipments of sporting and athletic goods (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was .90 percent. Secondary products shipped by this industry in 1958 consisted mainly of public building and related furniture, \$3 million; and other footwear, \$2 million.

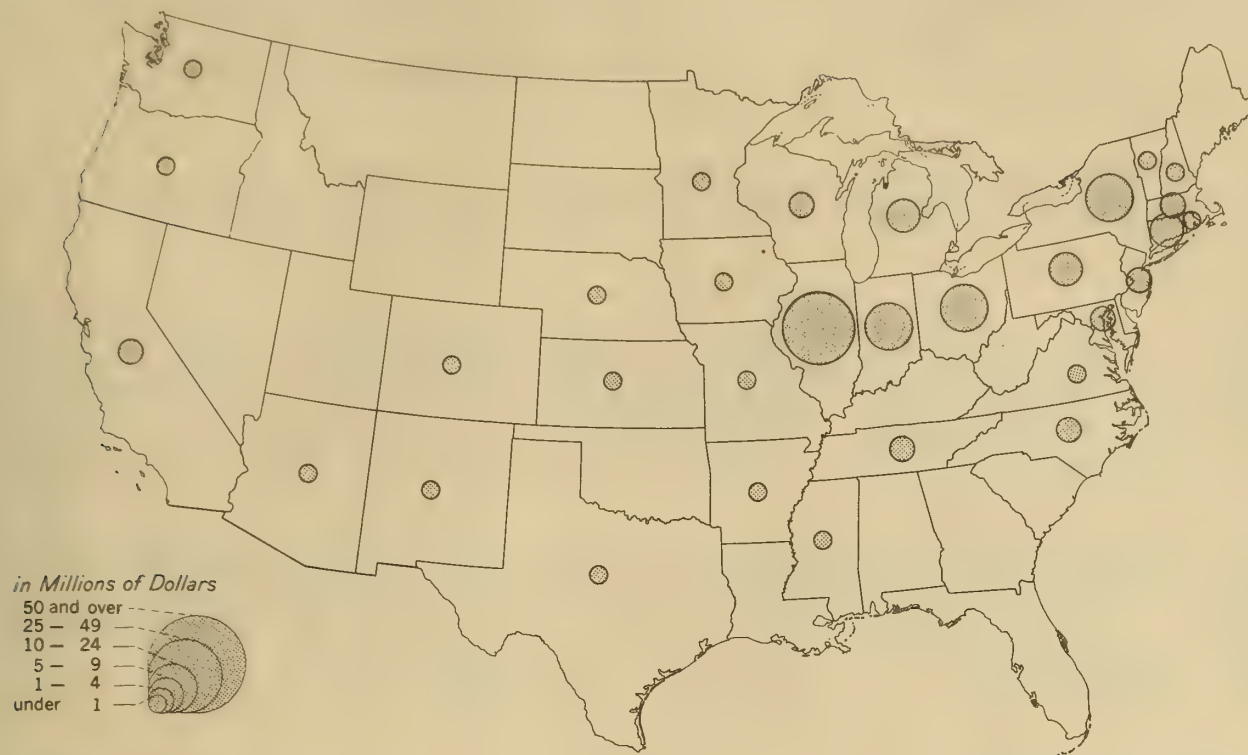
Industry 3949 shipments of sporting and athletic goods (primary products) in 1958 represented 91 percent (coverage ratio) of these products valued at \$520 million shipped by all industries. In 1954, the coverage ratio was 86 percent. Another industry shipping sporting and athletic goods (primary products) was Industry 3069, Fabricated Rubber Products, N.E.C., \$13 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



# MUSICAL INSTRUMENTS AND PARTS: SIC 393

Value Added by Manufacture by State: 1958

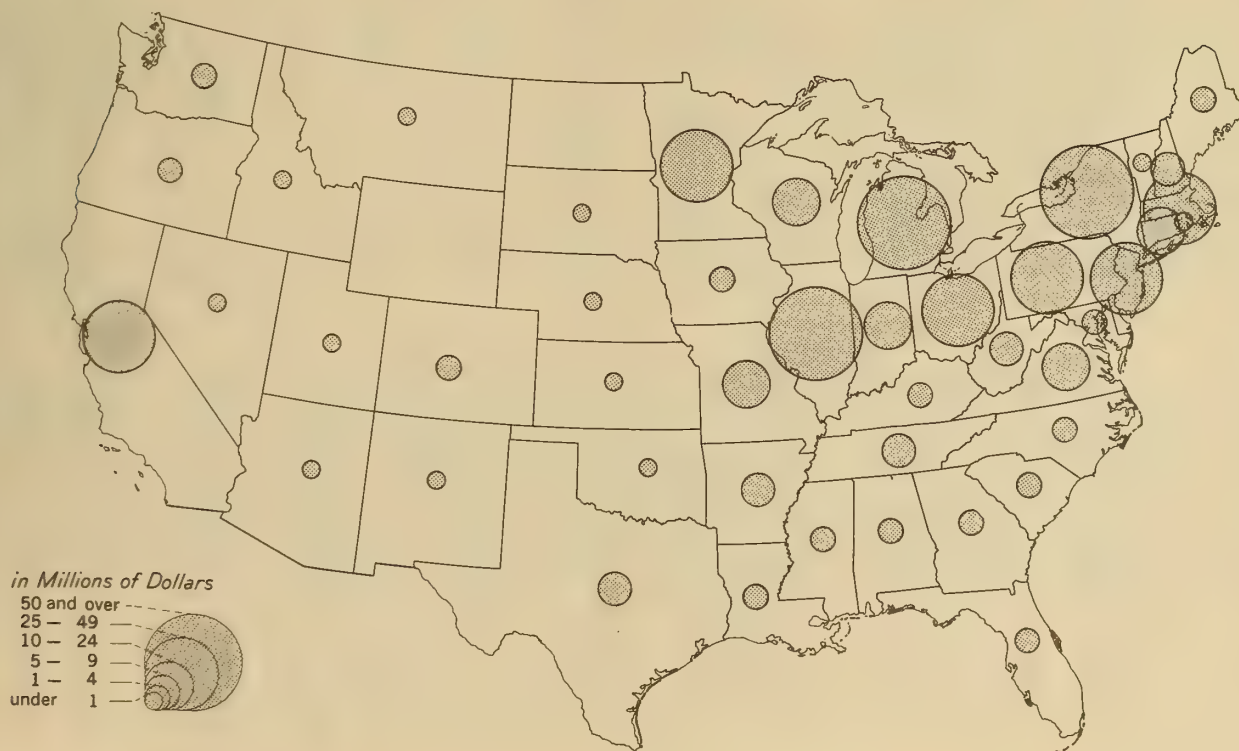


Includes only Industry 3931. See Table 2.

Bureau of the Census M-58-D393

# TOYS, SPORTING AND ATHLETIC GOODS: SIC 394

Value Added by Manufacture by State: 1958



Includes Industries 3941, 3942, 3943 and 3949. See Table 2.

Bureau of the Census M-58-D394

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3931 (old SIC 3931)	Musical instruments and parts: <sup>8</sup>														
	1958.....	253	274	117	17,450	81,657	13,617	26,616	57,778	131,703	125,806	258,988	4,664	95	94
	1954.....	(NA)	242	111	15,406	61,218	13,229	26,327	48,240	94,213	79,502	173,385	1,922	96	96
	1947.....	(NA)	260	(NA)	16,889	46,808	14,814	31,269	38,198	71,356	48,179	118,689	2,445	(NA)	(NA)
3941 (old SIC 3941)	Games and toys, nec:														
	1958.....	832	854	367	42,972	149,725	35,999	68,007	106,577	288,863	258,215	544,056	16,513	93	90
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	43,540	138,585	37,508	65,296	103,961	238,695	210,349	448,940	(S)	93	88
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	44,748	140,593	38,578	69,663	104,433	252,389	221,810	469,131	13,221	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	43,809	130,660	37,326	67,474	95,162	247,798	214,079	456,064	10,648	(NA)	(NA)
	1954.....	872	886	308	38,242	113,208	32,789	60,813	83,227	206,706	180,870	391,323	8,358	95	89
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	41,639	117,082	36,062	64,663	89,617	190,535	168,573	359,108	(NA)	(NA)	(NA)
	1947.....	830	837	(NA)	27,140	60,554	24,174	47,093	47,403	105,414	76,525	181,939	(NA)	92	90
	1939 <sup>10</sup> .....	(NA)	294	(NA)	(NA)	(NA)	13,778	(NA)	11,098	27,364	21,744	49,108	(NA)	(NA)	(NA)
3942 (old SIC 3942)	Dolls:														
	1958.....	482	485	162	13,860	43,984	12,196	22,709	33,877	77,149	85,094	161,924	5,469	98	94
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	20,657	59,783	18,550	37,119	46,560	100,248	102,791	203,141	(S)	92	94
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	19,761	54,589	17,694	34,592	43,452	103,104	101,946	201,799	2,523	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	16,541	44,081	15,071	27,975	35,256	75,037	84,769	158,820	2,658	(NA)	(NA)
	1954.....	484	484	165	15,119	38,938	13,792	24,618	30,657	66,351	78,489	145,210	2,247	92	97
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	17,061	44,634	15,718	27,981	35,330	70,509	101,330	171,839	(NA)	(NA)	(NA)
	1947.....	374	377	(NA)	9,797	21,847	8,886	17,386	17,739	37,577	32,209	69,786	(NA)	89	98
	1939 <sup>10</sup> .....	(NA)	136	(NA)	(NA)	(NA)	4,890	(NA)	4,405	8,874	9,608	18,482	(NA)	(NA)	(NA)
3943 (old SIC 3943)	Children's vehicles:														
	1958.....	56	58	33	4,708	19,625	3,946	7,712	14,932	31,727	38,461	70,438	831	84	78
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,458	24,893	5,274	9,363	17,823	37,489	43,454	81,449	863	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,643	26,283	5,521	10,014	19,099	41,693	45,238	85,266	938	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	6,707	26,482	5,522	10,451	19,149	38,580	43,515	81,652	987	(NA)	(NA)
	1954.....	58	60	37	6,278	24,308	5,454	10,553	19,354	35,461	40,629	77,213	1,325	76	90
	1947.....	119	120	(NA)	8,783	24,735	7,773	15,972	19,423	44,204	41,627	85,831	(NA)	81	79
	1939.....	(NA)	44	(NA)	4,952	6,172	4,319	(NA)	4,713	9,177	9,940	19,117	(NA)	(NA)	(NA)
	1937.....	(NA)	54	(NA)	5,731	6,537	5,218	(NA)	5,415	9,695	9,960	19,655	(NA)	(NA)	(NA)
	1935.....	(NA)	55	(NA)	5,456	5,411	4,918	(NA)	4,360	8,079	7,432	15,511	(NA)	(NA)	(NA)
	1933.....	(NA)	46	(NA)	4,280	3,290	3,971	(NA)	2,877	5,314	5,671	10,985	(NA)	(NA)	(NA)
	1931.....	(NA)	59	(NA)	(NA)	(NA)	4,159	(NA)	4,479	9,678	7,091	16,769	(NA)	(NA)	(NA)
	1929.....	(NA)	79	(NA)	7,894	10,274	7,102	(NA)	8,313	15,303	13,515	28,818	(NA)	(NA)	(NA)
	1927.....	(NA)	89	(NA)	7,788	9,571	7,030	(NA)	7,814	14,773	13,895	28,668	(NA)	(NA)	(NA)
	1925.....	(NA)	86	(NA)	7,706	9,659	6,926	(NA)	7,923	16,621	13,553	30,174	(NA)	(NA)	(NA)
	1923.....	(NA)	100	(NA)	9,174	10,557	8,324	(NA)	8,856	18,237	15,936	34,173	(NA)	(NA)	(NA)
	1921.....	(NA)	89	(NA)	6,156	6,996	5,460	(NA)	5,578	12,200	9,517	21,717	(NA)	(NA)	(NA)
	1919.....	(NA)	103	(NA)	7,448	7,973	6,686	(NA)	6,229	12,807	11,700	24,507	(NA)	(NA)	(NA)
	1914.....	(NA)	92	(NA)	6,434	3,927	5,900	(NA)	3,181	6,070	5,682	11,752	(NA)	(NA)	(NA)
	1909.....	(NA)	84	(NA)	5,719	2,707	5,300	(NA)	2,217	4,676	4,129	8,805	(NA)	(NA)	(NA)
	1904.....	(NA)	78	(NA)	4,327	2,124	4,003	(NA)	1,783	3,531	2,840	6,371	(NA)	(NA)	(NA)
	1899.....	(NA)	77	(NA)	2,898	1,249	2,726	(NA)	1,090	2,294	1,996	4,290	(NA)	(NA)	(NA)
3949 (old SIC 3949)	Sporting and athletic goods, nec:														
	1958.....	1,169	1,210	302	37,164	148,477	29,735	57,370	104,342	314,059	269,509	577,815	10,306	88	91
	1957 <sup>9</sup> .....	(NA)	(NA)	(NA)	30,609	110,285	25,008	48,296	81,054	230,728	166,693	389,497	5,222	(NA)	(NA)
	1956 <sup>9</sup> .....	(NA)	(NA)	(NA)	32,363	106,416	27,301	51,415	80,478	214,296	160,795	361,592	7,997	(NA)	(NA)
	1955 <sup>9</sup> .....	(NA)	(NA)	(NA)	28,634	92,235	24,141	46,082	68,914	174,429	131,716	303,536	7,877	(NA)	(NA)
	1954.....	1,007	1,031	254	28,919	89,681	24,439	46,101	66,087	159,852	146,961	308,824	5,662	90	86
	1953 <sup>9</sup> .....	(NA)	(NA)	(NA)	26,622	78,829	22,936	42,161	60,215	140,323	105,953	246,276	(NA)	(NA)	(NA)
	1951 <sup>9</sup> .....	(NA)	(NA)	(NA)	25,703	71,469	22,927	45,075	56,593	127,517	117,170	244,687	(NA)	(NA)	(NA)
	1950 <sup>9</sup> .....	(NA)	(NA)	(NA)	24,954	65,501	22,178	43,310	50,741	125,256	101,208	226,464	(NA)	(NA)	(NA)
	1947.....	843	863	228	29,756	66,675	26,381	51,990	53,768	107,449	94,854	202,303	7,351	94	90
	1939.....	(NA)	350	(NA)	16,633	19,813	13,816	(NA)	14,221	38,064	26,690	64,754	(NA)	(NA)	(NA)
	1937 <sup>11</sup> .....	(NA)	247	(NA)	(NA)	(NA)	12,178	(NA)	12,542	27,519	24,555	52,074	(NA)	(NA)	(NA)
	1935.....	(NA)	213	(NA)	11,667	12,421	9,979	(NA)	9,308	20,229	17,780	38,009	(NA)	(NA)	(NA)
	1933.....	(NA)	193	(NA)	9,859	8,604	8,622	(NA)	6,751	15,306	11,084	26,390	(NA)	(NA)	(NA)
	1931.....	(NA)	249	(NA)	(NA)	(NA)	10,768	(NA)	11,832	31,525	21,494	53,019	(NA)	(NA)	(NA)
	1929.....	(NA)	282	(NA)	14,227	19,958	12,183	(NA)	14,998	39,389	27,721	67,110	(NA)	(NA)	(NA)
	1927.....	(NA)	222	(NA)	12,630	17,078	10,873	(NA)	13,145	30,267	21,788	52,055	(NA)	(NA)	(NA)
	1925.....	(NA)	214	(NA)	11,120	15,034	9,761	(NA)	11,616	28,589	19,655	48,244	(NA)	(NA)	(NA)
	1923.....	(NA)	202	(NA)	12,185	15,106	10,559	(NA)	11,841	27,312	20,721	48,033	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per-cent)	Coverage ratio <sup>7</sup> (per-cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3949 (old SIC 3949)	Sporting and athletic goods, nec:														
	1921.....	(NA)	188	(NA)	9,227	11,017	7,988	(NA)	8,457	20,400	18,779	39,179	(NA)	(NA)	(NA)
	1919.....	(NA)	237	(NA)	9,631	10,055	8,513	(NA)	8,178	21,503	18,070	39,573	(NA)	(NA)	(NA)
	1914.....	(NA)	216	(NA)	7,948	4,837	7,055	(NA)	3,755	8,689	9,440	18,129	(NA)	(NA)	(NA)
	1909.....	(NA)	234	(NA)	7,566	4,145	7,049	(NA)	3,176	7,997	8,933	16,930	(NA)	(NA)	(NA)
	1904.....	(NA)	200	(NA)	5,533	2,612	5,056	(NA)	2,142	5,355	3,900	9,255	(NA)	(NA)	(NA)
	1899.....	(NA)	217	(NA)	2,934	1,360	2,678	(NA)	1,088	2,746	2,531	5,277	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resale of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry code	Value added (\$1,000)	Industry code	Value added (\$1,000)
3931	93,070	3943	36,499
3941	208,484	3949	158,153
3942	66,289		

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry code	Cost of materials, etc. (\$1,000)		Industry code	Cost of materials, etc. (\$1,000)	
	1958	1954		1958	1954
3931	118,910	76,285	3943	37,214	40,150
3941	248,329	174,180	3949	244,666	135,582
3942	84,025	76,442			

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry code	Value of shipments (\$1,000)		Industry code	Value of shipments (\$1,000)	
	1958	1954		1958	1954
3931	249,857	169,357	3943	69,076	76,650
3941	530,443	382,665	3949	544,728	293,735
3942	160,347	142,732			

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see Tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see Tables 5A and 5B.

<sup>8</sup>The 1957 Standard Industrial Classification combined in this industry four industries which were separate in the 1945 Standard Industrial Classification. These were: 3931, Pianos; 3932, Organs; 3933, Piano and Organ Parts; and 3939, Other Musical Instruments. The data for 1954 and 1947 for these four industries have been combined. Since data on Organs were published only in 1954 and 1947, the combined figures for these four industries can be shown only for those years.

<sup>9</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>The figures for 1937-1954 are not entirely comparable with those for earlier years because they include data for establishments primarily engaged in the manufacture of playground equipment. Value added by manufacture for 1937, excluding data for these establishments, amounted to \$26.3 million.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3931	Musical instruments and parts, total...	274	117	17,450	81,657	13,617	26,616	57,778	131,703	258,988	4,664	15,406	93,072	16,889
	New England.....	30	12	1,313	5,882	1,097	2,181	4,589	8,345	13,029	672	1,487	6,427	1,464
	Massachusetts...	18	6	371	1,676	300	579	1,185	2,230	3,552	(2)	414	1,718	(D)
	Middle Atlantic...	74	29	3,068	13,852	2,500	4,827	10,293	23,733	43,683	506	3,234	17,648	4,370
	New York.....	47	17	2,081	9,669	1,679	3,154	6,855	14,920	27,671	(2)	2,269	12,150	3,002
	New Jersey.....	11	5	210	819	179	366	670	3,433	6,201	(2)	170	821	456
	Pennsylvania....	16	7	777	3,364	642	1,307	2,768	5,380	9,811	(2)	794	4,676	912
	East North Central	110	58	10,786	52,898	8,053	15,823	35,779	85,428	176,151	1,309	9,367	61,927	9,753
	Ohio.....	14	10	2,491	11,599	1,964	3,793	8,547	13,024	25,226	(2)	2,564	11,820	699
	Indiana.....	27	12	1,553	8,864	1,125	2,140	5,915	13,442	22,841	(2)	1,758	10,865	2,108
	Illinois.....	49	25	5,252	25,832	3,685	7,481	16,056	48,515	108,857	852	3,634	31,178	4,284
	Michigan.....	12	7	971	4,335	852	1,618	3,563	6,710	12,645	(2)	936	4,984	(D)
	Wisconsin.....	8	4	519	2,268	427	791	1,698	3,737	6,582	(2)	474	3,078	(D)
	West North Central	8	2	154	728	123	278	578	1,086	1,547	(D)	205	1,309	205
	South.....	15	9	1,471	5,360	1,276	2,500	4,277	8,364	16,145	1,229	652	2,713	(D)
	West.....	37	7	658	2,937	568	1,007	2,262	4,747	8,433	(D)	461	3,047	(D)
	California.....	27	6	515	2,281	441	776	1,729	3,715	6,229	(D)	341	2,263	114
3941	Games and toys, nec, total.....	854	367	42,972	149,725	35,999	68,007	106,577	288,863	544,056	16,513	38,242	208,484	27,140
	New England.....	78	41	5,998	20,878	4,811	9,280	14,181	40,780	70,515	2,094	6,808	35,106	4,904
	New Hampshire...	8	5	997	2,954	900	1,929	2,626	5,640	9,432	(2)	629	1,679	(D)
	Massachusetts...	42	23	2,410	8,397	1,928	3,669	5,566	17,404	29,838	864	2,856	15,147	(D)
	Connecticut....	15	6	1,417	5,551	1,034	1,862	3,334	9,981	16,248	512	2,463	13,921	(D)
	Middle Atlantic...	364	162	19,595	66,022	16,632	31,145	48,211	126,873	241,182	6,588	18,273	99,370	12,180
	New York.....	250	103	10,526	33,958	8,801	16,723	23,754	70,466	139,313	3,201	8,347	44,685	4,620
	New Jersey.....	63	34	4,546	16,219	3,877	7,092	11,577	30,472	50,947	2,346	4,833	26,642	3,900
	Pennsylvania....	51	25	4,523	15,845	3,954	7,330	12,880	25,935	50,922	1,041	5,092	28,042	3,660
	East North Central	178	90	9,185	33,659	7,521	14,174	23,509	61,586	123,968	2,909	7,363	45,650	6,728
	West North Central	49	23	1,600	5,277	1,351	2,486	3,641	10,185	18,766	545	1,132	5,107	842
	Minnesota.....	20	12	893	3,038	772	1,493	2,194	5,291	10,025	(2)	537	2,650	181
	Missouri.....	17	9	586	1,807	473	772	1,098	3,898	7,112	(2)	533	2,159	423
	South Atlantic....	31	9	1,464	5,347	1,325	2,470	4,575	9,053	18,830	531	(3)	(3)	(3)
	North Carolina..	5	2	159	424	137	233	300	879	1,983	(2)	238	1,177	(D)
	East South Central	15	8	806	2,248	691	1,152	1,617	4,382	10,256	(2)	(3)	(3)	(3)
	Tennessee.....	9	5	496	1,471	414	647	974	3,152	7,819	(2)	(3)	(3)	(3)
	West South Central	30	10	1,377	5,071	1,186	2,490	3,048	10,067	15,186	2,394	(3)	(3)	(3)
	West.....	109	24	2,947	11,223	2,482	4,810	7,795	25,937	45,353	1,176	2,289	11,897	937
	California.....	85	22	2,757	10,705	2,321	4,536	7,376	24,968	43,575	1,011	2,041	10,859	798
3942	Dolls, total.....	485	162	13,860	43,984	12,196	22,709	33,877	77,149	161,924	5,469	15,119	66,289	9,797
	New England.....	32	10	1,019	2,680	873	1,613	2,022	5,149	8,880	(2)	836	3,195	463
	Middle Atlantic...	379	140	11,708	38,126	10,356	19,366	29,447	66,435	139,977	5,228	12,934	57,816	6,984
	New York.....	343	126	9,614	30,422	8,513	15,934	23,593	54,321	115,741	4,902	11,166	49,602	5,669
	New Jersey.....	21	7	1,571	6,008	1,379	2,538	4,427	9,252	18,521	(2)	1,278	6,536	966
	Pennsylvania....	15	7	523	1,696	464	894	1,427	2,862	5,715	(2)	488	1,676	349
	North Central.....	22	4	299	807	241	432	617	1,358	3,037	(2)	(3)	(3)	(3)
	South and West....	52	8	834	2,371	726	1,298	1,791	4,207	10,030	(2)	1,086	3,956	2,350
	Georgia.....	7	4	380	1,204	350	667	969	2,243	4,904	(2)	552	1,833	(3)
3943	Children's vehicles, total.....	58	33	4,708	19,625	3,946	7,712	14,932	31,727	70,438	831	6,278	36,499	8,783
	New England.....	12	8	853	3,293	670	1,266	2,334	4,230	9,935	(2)	1,146	5,946	2,343
	Middle Atlantic...	18	9	741	2,826	649	1,233	2,129	4,040	8,862	(2)	879	4,912	1,350
	North Central.....	15	11	2,539	11,119	2,209	4,366	9,020	18,771	41,957	(2)	(3)	(3)	(3)
	South and West....	13	5	575	2,387	418	847	1,449	4,686	9,684	(2)	522	3,031	197
3949	Sporting and athletic goods, nec, total.....	1,210	302	37,164	148,477	29,735	57,370	104,342	314,059	577,815	10,306	28,919	158,153	29,756
	New England.....	89	33	4,937	17,985	4,038	7,539	13,407	28,311	57,644	776	4,340	20,920	6,019
	Maine.....	12	4	643	1,910	576	1,142	1,707	2,816	5,206	(2)	(3)	(3)	(3)
	Massachusetts...	37	14	3,037	11,535	2,444	4,471	8,361	18,878	39,162	519	2,893	14,618	(D)
	Connecticut.....	23	8	880	3,320	704	1,333	2,430	4,428	9,159	(2)	950	4,488	1,666
	Middle Atlantic...	219	66	8,636	39,740	6,468	13,068	26,974	86,328	142,113	2,582	4,624	24,531	6,001
	New Jersey.....	43	7	518	2,172	428	802	1,686	4,014	8,022	(2)	(3)	(3)	(3)

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3949	Sporting and athletic goods, nec—Continued.....													
	East North Central	323	94	11,592	48,991	9,165	17,540	33,566	116,412	221,974	3,429	11,188	67,818	11,374
	Ohio.....	67	23	4,024	17,034	3,171	6,035	11,983	28,683	74,289	1,226	4,083	23,202	3,782
	Indiana.....	31	5	388	1,571	307	558	1,012	2,766	5,455	(2)	369	2,119	553
	Illinois.....	88	28	2,463	9,999	1,981	3,730	7,273	36,839	55,658	897	2,344	14,808	2,524
	Michigan.....	90	22	3,685	17,278	2,844	5,776	11,220	43,006	76,675	1,061	3,458	23,506	3,619
	Wisconsin.....	47	16	1,032	3,109	862	1,441	2,078	5,118	9,897	(2)	933	4,182	896
	West North Central	116	30	3,075	9,898	2,677	5,067	7,868	18,704	38,649	546	2,594	11,454	1,908
	Minnesota.....	43	8	582	2,062	510	942	1,600	4,764	9,020	(2)	528	3,004	434
	Iowa.....	25	8	636	2,042	528	1,026	1,560	3,787	7,119	(2)	540	1,926	333
	Missouri.....	35	13	1,727	5,321	1,533	2,894	4,357	9,320	21,080	(2)	1,425	6,154	1,044
	South Atlantic....	85	20	2,637	9,452	2,069	3,998	6,277	21,602	34,422	1,265	869	3,537	967
	South Carolina..	7	4	368	1,127	326	645	814	2,158	3,568	515	177	888	251
	Florida.....	46	7	430	1,214	365	666	924	2,316	4,283	(2)	292	999	214
	East South Central	44	12	1,538	5,541	1,338	2,591	4,069	10,576	22,045	(2)	1,214	5,908	902
	Tennessee.....	18	5	798	2,161	742	1,353	1,868	4,041	8,676	(2)	712	2,748	485
	Alabama.....	15	4	271	966	207	438	579	2,530	5,676	(2)	133	779	...
	West South Central	68	9	1,501	4,668	1,314	2,518	3,565	7,887	16,832	(2)	1,281	7,314	683
	Texas.....	34	5	360	1,116	301	554	827	2,716	4,959	(2)	423	1,867	324
	Mountain.....	44	9	914	2,513	840	1,531	2,196	4,587	7,853	(2)	962	4,846	837
	Colorado.....	27	8	630	1,778	584	1,061	1,569	3,293	5,808	(2)	764	3,958	702
	Pacific.....	222	29	2,334	9,689	1,826	3,518	6,420	19,652	36,283	1,106	1,843	11,822	1,065
	Washington.....	32	5	246	882	197	339	708	1,874	3,305	(2)	151	871	213
	Oregon.....	23	2	163	580	140	260	467	1,208	1,978	(2)	137	746	113
	California.....	167	22	1,925	8,227	1,489	2,919	5,245	16,570	31,000	960	1,553	10,204	739

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3931, Musical Instruments and Parts: New England—New Hampshire, 1 (20-99); Vermont, 4 (100-249); Rhode Island, 2 (20-99); Connecticut, 5 (500-999); West North Central—Minnesota, 1 (1-19); Iowa, 2 (1-19); Missouri, 2 (20-99); Nebraska, 1 (1-19); Kansas, 2 (20-99); South—Maryland, 3 (500-999); District of Columbia, 1 (1-19); Virginia, 1 (20-99); North Carolina, 1 (100-249); Florida, 2 (1-19); Tennessee, 4 (250-499); Mississippi, 1 (100-249); Arkansas, 1 (20-99); Texas, 1 (1-19); West—Colorado, 3 (1-19); New Mexico, 1 (1-19); Arizona, 2 (1-19); Washington, 3 (100-249); Oregon, 1 (1-19).

SIC 3941, Games and Toys, NEC: New England—Maine, 4 (20-99); Vermont, 2 (20-99); Rhode Island, 7 (1,076); East North Central—Ohio, 47 (2,326); Indiana, 15 (1,000-2,499); Illinois, 71 (3,800); Michigan, 28 (1,193); Wisconsin, 17 (500-999); West North Central—Iowa, 4 (20-99); South Dakota, 1 (1-19); Nebraska, 2 (1-19); Kansas, 5 (1-19); South Atlantic—Maryland, 6 (100-249); Virginia, 2 (100-249); West Virginia, 4 (500-999); Georgia, 4 (20-99); Florida, 10 (20-99); East South Central—Kentucky, 1 (1-19); Alabama, 1 (20-99); Mississippi, 4 (100-249); West South Central—Arkansas, 4 (500-999); Louisiana, 3 (20-99); Oklahoma, 3 (1-19); Texas, 20 (500-999); West—Montana, 1 (1-19); Colorado, 7 (20-99); Arizona, 3 (1-19); Utah, 1 (1-19); Nevada, 2 (1-19); Washington, 5 (1-19); Oregon, 5 (100-249).

SIC 3942, Dolls: New England—Maine, 1 (1-19); New Hampshire, 9 (20-99); Massachusetts, 16 (500-999); Connecticut, 6 (250-499); North Central—Ohio, 4 (20-99); Illinois, 6 (20-99); Michigan, 3 (1-19); Wisconsin, 1 (1-19); Minnesota, 4 (20-99); Iowa, 1 (1-19); Missouri, 3 (100-249); South and West—Maryland, 2 (1-19); North Carolina, 2 (20-99); Florida, 3 (1-19); Tennessee, 3 (20-99); Mississippi, 2 (1-19); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 3 (1-19); Montana, 1 (20-99); Washington, 2 (1-19); Oregon, 1 (1-19); California, 24 (100-249).

SIC 3943, Children's vehicles: New England—Massachusetts, 11 (500-999); Connecticut, 1 (20-99); Middle Atlantic—New York, 16 (500-999); Pennsylvania, 2 (20-99); North Central—Ohio, 2 (250-499); Indiana, 2 (500-999); Illinois, 3 (500-999); Michigan, 3 (100-249); Wisconsin, 2 (250-499); Minnesota, 1 (1-19); Missouri, 2 (250-499); South and West—Tennessee, 1 (1-19); Alabama, 2 (250-499); Oklahoma, 1 (1-19); Texas, 1 (1-19); California, 8 (250-499).

SIC 3949, Sporting and Athletic Goods, NEC: New England—New Hampshire, 3 (100-249); Vermont, 3 (20-99); Rhode Island, 11 (100-249); Middle Atlantic—New York, 117 (5,000 and over); Pennsylvania, 59 (1,000-2,499); West North Central—Nebraska, 6 (20-99); Kansas, 7 (20-99); South Atlantic—Maryland, 7 (100-249); Virginia, 4 (1,000-2,499); West Virginia, 2 (1-19); North Carolina, 11 (20-99); Georgia, 8 (100-249); East South Central—Kentucky, 5 (250-499); Mississippi, 6 (100-249); West South Central—Arkansas, 11 (500-999); Louisiana, 13 (100-249); Oklahoma, 10 (100-249); Mountain—Montana, 2 (1-19); Idaho, 6 (100-249); New Mexico, 1 (1-19); Arizona, 4 (20-99); Utah, 3 (20-99); Nevada, 1 (1-19).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

## MANUFACTURES-INDUSTRY STATISTICS

Table 3.-Detailed Statistics for the United States: 1958

Item	Musical instruments and parts (SIC 3931)	Games and toys, nec (SIC 3941)	Dolls (SIC 3942)	Children's vehicles (SIC 3943)	Sporting and athletic goods, nec (SIC 3949)
Primary product specialization ratio <sup>1</sup> .....	96	93	98	84	88
Coverage ratio <sup>2</sup> .....	94	92	94	78	91
Number of establishments, total.....	274	854	485	58	1,210
With 1-19 employees.....	157	487	323	25	908
With 20-99 employees.....	72	263	134	17	234
With 100 employees or more.....	45	104	28	16	68
Proprietors and working partners.....Number..	122	346	328	13	798
All employees:					
Number (average for the year).....	17,450	42,972	13,860	4,708	37,164
Payroll.....\$1,000..	81,657	149,725	43,984	19,625	148,477
Production workers:					
Number (average for the year).....	13,617	35,999	12,196	3,946	29,735
March.....	13,436	30,828	8,047	3,689	29,064
May.....	13,051	34,123	11,617	3,982	29,831
August.....	13,337	40,636	14,994	4,023	30,376
November.....	14,721	38,542	14,251	4,121	30,136
Man-hours.....1,000..	26,616	68,007	22,709	7,712	57,370
January-March.....do....	6,586	13,614	3,531	1,611	13,556
April-June.....do....	6,268	16,630	5,481	2,019	14,141
July-September.....do....	5,982	19,122	6,898	1,971	13,724
October-December.....do....	7,671	18,314	6,560	2,097	15,346
Wages.....\$1,000..	57,778	106,577	33,877	14,932	104,342
Cost of materials, etc., total.....do....	125,806	258,215	85,094	38,461	269,509
Materials, parts, containers, and supplies consumed.....do....	115,419	238,786	74,995	35,724	232,142
Cost of resales.....do....	6,896	9,886	1,069	1,247	24,843
Fuels consumed.....do....	831	1,530	325	283	1,605
Electricity purchased.....do....	977	3,032	717	299	2,436
Contract work.....do....	1,683	4,981	7,988	908	8,483
Value of shipments (including resales), total.....do....	258,988	544,056	161,924	70,438	577,815
Value of resales.....do....	9,131	13,613	1,577	1,362	33,087
Value added by manufacture, adjusted...do....	131,703	288,863	77,149	31,727	314,059
Manufacturers' inventories:					
Beginning of year, total.....do....	48,102	76,613	12,581	10,417	130,360
Finished products.....do....	10,747	35,116	4,559	3,490	51,473
Work-in-process.....do....	21,495	15,412	2,806	2,253	28,285
Materials, supplies, fuel, etc.....do....	15,860	26,085	5,216	4,674	50,602
End of year, total.....do....	45,552	79,612	12,651	10,370	127,612
Finished products.....do....	9,475	37,149	4,669	3,192	54,418
Work-in-process.....do....	21,288	16,401	3,015	2,301	31,093
Materials, supplies, fuel, etc.....do....	14,789	26,062	4,967	4,877	42,101
Expenditures for plant and equipment, total.....do....	4,758	16,545	5,647	1,141	10,633
New, total.....do....	4,664	16,513	5,469	831	10,306
New structures and additions to plant.....do....	2,210	4,444	( <sup>3</sup> )	( <sup>3</sup> )	2,409
New machinery and equipment.....do....	2,454	12,069	5,281	635	7,897
Used plant and equipment.....do....	( <sup>3</sup> )	527	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.



MUSICAL INSTRUMENTS AND PARTS: TOYS, AND SPORTING AND ATHLETIC GOODS 39B-9

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3931	Musical instruments and parts:											
	Number of establishments.....	274	84	42	31	46	26	27	13	3	2	...
	All employees:											
	Number.....	17,450	182	279	440	1,401	1,822	4,116	4,319	<u>4,891</u>	(D)	...
	Payroll.....\$1,000..	81,657	599	1,147	1,933	5,794	8,015	20,220	19,612	<u>24,337</u>	(D)	...
	Value added, adjusted..do....	131,703	1,429	1,719	5,722	9,647	13,254	35,214	33,373	<u>31,345</u>	(D)	...
	Value of shipments.....do....	258,988	3,088	3,499	10,479	15,380	25,162	80,508	58,250	<u>62,622</u>	(D)	...
	Capital expend., new...do....	4,664	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,036	1,101	535	643	<u>1,147</u>	(D)	...
3941	Games and toys, nec:											
	Number of establishments.....	854	259	102	126	169	94	69	25	7	3	...
	All employees:											
	Number.....	42,972	461	667	1,709	5,443	6,577	10,544	8,699	4,892	3,980	...
	Payroll.....\$1,000..	149,725	1,209	2,079	5,316	17,652	21,097	34,507	31,967	19,831	16,067	...
	Value added, adjusted..do....	288,863	3,944	4,492	11,164	36,332	40,302	63,431	62,721	37,044	29,433	...
	Value of shipments.....do....	544,056	7,909	8,379	21,682	71,950	82,915	127,746	111,118	67,521	44,836	...
	Capital expend., new...do....	16,513	1,596	1,122	936	2,118	2,034	2,351	4,184	875	1,297	...
3942	Dolls:											
	Number of establishments.....	485	129	103	91	88	46	20	8	...	...	...
	All employees:											
	Number.....	13,860	283	686	1,298	2,786	3,133	3,065	2,609	...	...	...
	Payroll.....\$1,000..	43,984	600	1,630	3,589	8,365	10,021	10,645	9,134	...	...	...
	Value added, adjusted..do....	77,149	1,413	3,481	7,104	15,043	17,425	16,905	15,778	...	...	...
	Value of shipments.....do....	161,924	2,781	7,582	13,321	33,249	39,064	37,975	27,952	...	...	...
	Capital expend., new...do....	5,469	( <sup>1</sup> )	693	( <sup>1</sup> )	( <sup>1</sup> )	<u>3,766</u>	(D)	( <sup>1</sup> )	...	...	...
3943	Children's vehicles:											
	Number of establishments.....	58	14	5	6	9	8	11	4	1	...	...
	All employees:											
	Number.....	4,708	27	32	86	277	509	1,880	1,897	(D)	...	...
	Payroll.....\$1,000..	19,625	74	76	292	868	2,011	8,064	<u>8,240</u>	(D)	...	...
	Value added, adjusted..do....	31,727	86	70	474	1,251	3,252	13,640	<u>12,954</u>	(D)	...	...
	Value of shipments.....do....	70,438	535	184	1,173	2,561	6,786	32,335	<u>26,864</u>	(D)	...	...
	Capital expend., new...do....	831	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	...
3949	Sporting and athletic goods, nec:											
	Number of establishments.....	1,210	578	168	162	163	71	45	13	6	3	1
	All employees:											
	Number.....	37,164	1,074	1,111	2,247	5,053	4,918	7,213	4,534	3,584	<u>7,430</u>	(D)
	Payroll.....\$1,000..	148,477	3,103	3,907	7,137	16,926	18,185	26,688	20,328	14,716	<u>37,487</u>	(D)
	Value added, adjusted..do....	314,059	7,034	7,275	13,688	31,874	34,851	65,327	36,334	21,313	<u>96,363</u>	(D)
	Value of shipments.....do....	577,815	15,570	15,687	26,673	66,344	70,547	109,983	86,139	39,769	<u>147,103</u>	(D)
	Capital expend., new...do....	10,306	722	654	1,263	1,036	840	1,482	1,591	( <sup>1</sup> )	<u>2,378</u>	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments, Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3931	Musical instruments and parts...1958..	258,988	228,851	8,719	21,418	96	242,600	228,851	13,749	94
3941	Games and toys, nec.....1958..	544,056	482,947	35,395	25,714	93	522,031	482,947	39,084	92
	.....1954..	391,323	356,177	19,572	15,574	95	400,378	356,177	44,201	89
3942	Dolls.....1958..	161,924	152,561	3,099	6,264	98	161,893	152,561	9,332	94
	.....1954..	145,210	127,518	10,975	6,717	92	131,932	127,518	4,414	97
3943	Children's vehicles.....1958..	70,438	57,011	10,530	2,897	84	72,914	57,011	15,903	78
	.....1954..	77,213	57,900	17,800	1,513	76	64,547	57,900	6,647	90
3949	Sporting and athletic goods, nec.....1958..	577,815	472,655	67,301	37,859	88	519,920	472,655	47,265	91
	.....1954..	308,824	260,637	29,611	18,576	90	302,674	260,637	42,037	86

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries).

Prod. class code	Musical instruments and parts industry	Musical instruments and parts (SIC 3931)	Other industries	All industries		
	Total shipments and receipts of the industry.....	258,988	xxx	xxx		
	Primary products.....	228,851	13,749	242,600		
39311	Pianos.....	64,130	...	64,130		
39312	Organs.....	69,746	<sup>1</sup> 9,629	79,375		
39313	Piano and organ parts.....	48,575	2,570	51,145		
39314	Other musical instruments and parts.....	46,400	1,550	47,950		
	Secondary products.....	28,719	xxx	xxx		
	Miscellaneous receipts.....	21,418	xxx	xxx		
	Sales of products bought and resold.....	9,131	xxx	xxx		
	Other miscellaneous receipts.....	12,287	xxx	xxx		
Prod. class code	Games and toys, nec, industry	Games and toys, nec (SIC 3941)	Plastics products, nec (SIC 3079)	Children's vehicles (SIC 3943)	Other industries	All industries
	Total shipments and receipts of the industry.....	544,056	xxx	xxx	xxx	xxx
39410	Games and toys, except dolls and children's vehicles.....	482,947	8,410	3,341	<sup>3</sup> 27,333	522,031
	Secondary products.....	35,395	xxx	xxx	xxx	xxx
3079-	Plastics products, nec.....	46,829	xxx	xxx	xxx	xxx
3949-	Sporting and athletic goods, nec.....	2,658	xxx	xxx	xxx	xxx
	Other secondary products.....	<sup>5</sup> 25,908	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	25,714	xxx	xxx	xxx	xxx
	Contract and commission work.....	7,264	xxx	xxx	xxx	xxx
	Sales of products bought and resold.....	13,613	xxx	xxx	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	1,712	xxx	xxx	xxx	xxx
	Other miscellaneous receipts.....	3,125	xxx	xxx	xxx	xxx

See footnotes at end of table.



MUSICAL INSTRUMENTS AND PARTS: TOYS, AND SPORTING AND ATHLETIC GOODS 39B-11

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Dolls industry	Dolls (SIC 3942)	Other industries	All industries
	Total shipments and receipts of the industry.....	161,924	xxx	xxx
39420	Dolls and stuffed toy animals.....	152,561	<sup>8</sup> 9,332	161,893
	Secondary products.....	3,099	xxx	xxx
	Miscellaneous receipts.....	6,264	xxx	xxx
	Contract and commission work.....	4,307	xxx	xxx
	Sales of products bought and resold.....	1,577	xxx	xxx
	Other miscellaneous receipts.....	380	xxx	xxx
Prod. class code	Children's vehicles industry	Children's vehicles (SIC 3943)	Other industries	All industries
	Total shipments and receipts of the industry.....	70,438	xxx	xxx
39430	Baby carriages and children's vehicles, except bicycles.....	57,011	<sup>7</sup> 15,903	72,914
	Secondary products.....	10,530	xxx	xxx
2511-	Wood furniture, not upholstered.....	2,508	xxx	xxx
39410	Games and toys, except dolls and children's vehicles.....	3,341	xxx	xxx
	Other secondary products.....	<sup>8</sup> 4,681	xxx	xxx
	Miscellaneous receipts.....	2,897	xxx	xxx
	Sales of products bought and resold.....	1,362	xxx	xxx
	Other miscellaneous receipts.....	1,535	xxx	xxx
Prod. class code	Sporting and athletic goods, nec, industry	Sporting and athletic goods, nec (SIC 3949)	Other industries	All industries
	Total shipments and receipts of the industry.....	577,815	xxx	xxx
	Primary products.....	472,655	47,265	519,920
39491	Fishing tackle and equipment.....	73,832	1,927	75,759
39492	Other sporting and athletic goods.....	355,507	<sup>9</sup> 43,255	398,762
39490	Sporting and athletic goods, nsk.....	43,316	2,083	45,399
	Secondary products.....	67,301	xxx	xxx
25312	Public building and related furniture.....	2,619	xxx	xxx
31417	All other footwear.....	2,442	xxx	xxx
	All other.....	<sup>10</sup> 62,240	xxx	xxx
	Miscellaneous receipts.....	37,859	xxx	xxx
	Contract and commission work.....	2,272	xxx	xxx
	Sales of products bought and resold.....	33,087	xxx	xxx
	Repair work, scrap, and salable refuse.....	2,500	xxx	xxx

<sup>1</sup>Includes the following industries which had shipments of \$2 million or more, but which are withheld to avoid disclosing individual company figures: Industry 3651, Radios and TV Receiving Sets; and Industry 3662, Radio, TV Communication Equipment.

<sup>2</sup>Includes product class 36621, Commercial, industrial, and military electronic communication equipment, which had shipments of \$2 million or more but which is withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes the following industries which had shipments of \$2 million or more, but which are withheld to avoid disclosing individual company figures: Industry 2731, Books, Publishing and Printing; and Industry 3461, Metal Stampings.

<sup>4</sup>Includes product class 30791, Plastic dinnerware and housewares, except sheet goods products, \$2,219 thousand; and product class 30793, Molded plastic products, nec, \$5,049 thousand.

<sup>5</sup>Includes product class 39420, Dolls and stuffed toy animals, which had shipments of \$2 million or more but which is withheld to avoid disclosing individual company figures.

<sup>6</sup>Includes Industry 3941, Games and Toys, NEC, which had shipments of \$2 million or more but which is withheld to avoid disclosing individual company figures.

<sup>7</sup>Includes Industry 3751, Motorcycles, Bicycles, and Parts, which had shipments of \$2 million or more, but which is withheld to avoid disclosing individual company figures.

<sup>8</sup>Includes product class 39492, Other sporting and athletic goods, which had shipments of \$2 million or more but which is withheld to avoid disclosing individual company figures.

<sup>9</sup>Includes \$13,412 thousand shipped by Industry 3069, Fabricated Rubber Products, NEC. In addition, Industry 3011, Tires and Inner Tubes had shipments which totaled \$2 million or more but which are withheld to avoid disclosing individual company figures.

<sup>10</sup>Includes the following product classes which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: Product class 25292, Men's, youth's, and boys' underwear, nec; product class 25311, School furniture, except stone and concrete; Product class 25410, Wood partitions, shelving, lockers, and office and store fixtures; Product class 35340, Elevators and moving stairways; Product Class 37291, Other aircraft parts and auxiliary equipment; and Product class 37292, Guided missile components and subassemblies, nec.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	1958			1954		
		Total production  (number)	Total shipments including inter-plant transfers		Total production  (number)	Total shipments including inter-plant transfers	
			Quantity (number)	Value (\$1,000)		Quantity (number)	Value (\$1,000)
3931---	Musical instruments and parts, total.....	xxx	xxx	242,600	xxx	xxx	168,633
39311--	Pianos.....	xxx	xxx	64,130	xxx	xxx	56,695
3931111	Verticals, uprights, or consoles, 37 inches or less in height...	84,236	83,080	33,065	91,936	92,644	30,279
3931115	Verticals, uprights, or consoles, over 37 inches in height.....	62,740	63,893	26,269	56,001	56,102	21,986
3931151	Grand pianos.....	2,393	3,210	4,796	3,641	3,583	4,430
39312--	Organs.....	xxx	xxx	79,375	xxx	xxx	37,454
3931211	Pipe and reed.....	xxx	xxx	14,125	xxx	xxx	6,622
3931251	Electronic.....	81,782	88,559	65,250	34,092	34,013	30,832
39313--	Piano and organ parts.....	xxx	xxx	51,145	xxx	xxx	38,123
3931311	Piano parts and materials (actions, attachments, strings, tuning pins, etc.) except benches.....	xxx	xxx	23,244	xxx	xxx	19,437
3931351	Organ parts and materials, except benches.....	xxx	xxx	27,901	xxx	xxx	18,686
39314--	Other musical instruments and parts.....	xxx	xxx	47,950	xxx	xxx	36,361
3931411	Wind instruments, except organs.....	260,432	261,485	19,812	285,043	276,722	16,538
3931431	Accessories and parts, sold separately, such as reed mouth-pieces, music stands, or drummers' traps, etc., except instrument cases and benches.....	xxx	xxx	6,282	xxx	xxx	6,954
3931498	Other musical instruments (violins, guitars, harps, drums, etc.)	xxx	xxx	18,756	xxx	xxx	12,869
3931400	Musical instruments, nsk.....	xxx	xxx	3,100	xxx	xxx	xxx
Value of shipments including interplant transfers (\$1,000)							
1958				1954			
3941---	Games and toys, except dolls and children's vehicles, total.....			522,031			400,378
3941011	Doll carriages and doll carts <sup>1</sup> .....			8,063			8,232
3941021	Toy trains and equipment (mechanical and electric).....			25,926			33,500
3941031	Mechanical toys, except trains (propelled by springs or electricity, gear driven), including miniature engines for aircraft or toy boats.....			33,754			14,729
3941041	Structural toy sets.....			6,197			8,450
3941051	Model construction sets (airplanes, ships, trains, etc.) <sup>2</sup> .....			18,809			16,600
3941061	Metal toys, other than those listed above.....			72,448			83,232
3941071	Wooden toys, other than those listed above.....			38,582			31,199
3941081	Plastic toys, other than those listed above.....			114,537			83,409
3941091	Parts for toys and games.....			5,252			9,822
3941098	Other games, complete (including chess, checkers, etc.).....			124,883			91,814
3941000	Games and toys, except dolls and children's vehicles, nsk.....			73,580			19,391
Total shipments including interplant transfers							
1958				1954			
		Quantity (1,000 units)	Value (\$1,000)			Quantity (1,000 units)	Value (\$1,000)
3942---	Dolls.....	xxx	161,893	xxx			131,932
3942011	Dolls, complete (except rubber dolls).....	xxx	49,560	xxx			41,533
	Quantity reported.....	27,864	41,295	28,627			37,081
	Quantity not reported.....	xxx	8,265	xxx			4,452
3942013	Rubber dolls.....	4,302	12,579	18,241			27,977
3942015	Doll clothes and doll parts.....	xxx	33,094	xxx			25,149
3942051	Stuffed toy animals.....	xxx	39,556	xxx			31,072
	Quantity reported.....	12,912	33,650	17,750			26,825
	Quantity not reported.....	xxx	5,906	xxx			4,247
3942000	Dolls, nsk.....	xxx	27,104	xxx			6,201
3943---	Children's vehicles, total.....	xxx	72,914	xxx			64,547
3943011	Baby carriages (including combination carriage stroller).....	280	7,657	380			8,546
3943015	Strollers.....	877	11,589	815			6,510
3943021	Baby walkers.....	559	3,483	653			4,713
3943031	} Velocipedes and tricycles.....	2,423	18,171	2,361			16,660
3943041							
3943061	Children's wagons (coaster, express, and other).....	2,204	7,675	1,514			6,816
3943071	Sleds.....	921	3,327	522			1,441
3943081	Parts for children's vehicles, sold separately.....	xxx	1,908	xxx			3,239
3943098	Other children's vehicles (including scooters, children's automobiles, sidewalk cycles, three-wheel play cars, etc.).....	xxx	17,954	xxx			15,266
3943000	Children's vehicles, nsk.....	xxx	1,150	xxx			1,356

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3949---	Sporting and athletic goods, total.....	.....	xxx	519,920	xxx	302,674
39491--	Fishing tackle and equipment.....	.....	xxx	75,759	xxx	67,449
3949114	Fishing rods, all types.....	1,000.....	5,408	16,522	5,831	17,061
3949115	Fishing reels.....	..do.....	5,428	22,816	4,774	18,901
3949116	Flies, snelled hooks, leaders, and artificial bait.....	.....	xxx	15,503	xxx	18,509
3949119	Other fishing tackle (including fishing poles, fish hooks, floats, furnished lines, sinkers, etc.).....	.....	xxx	20,918	xxx	12,978
39492--	Other sporting and athletic goods.....	.....	xxx	398,762	xxx	219,180
3949222	Billiard and pool tables and playing supplies (including balls, cues, etc.)	.....	xxx	5,207	xxx	3,807
3949225	Bowling alleys.....	Number.....	xxx	( <sup>3</sup> )	3,358	4,610
3949228	Bowling alley playing supplies:					
3949229	Bowling balls.....	1,000.....	897	10,540	xxx	27,069
	Other bowling alley playing supplies (including pins, bowling pin setters, etc.) <sup>4</sup> .....	.....	xxx	134,875		
3949231	Golf balls.....	1,000 dozen.	3,386	18,831	3,066	15,444
3949241	Golf clubs:					
3949245	Irons.....	1,000.....	4,648	20,982	3,290	13,702
	Woods.....	..do.....	1,785	11,507	1,542	9,672
3949261	Baseballs.....	1,000 dozen.	735	8,510	574	6,185
3949263	Softballs and indoor type baseballs.....	..do.....	353	4,747	309	3,361
3949265	Baseball bats (including softball bats).....	1,000.....	6,082	7,092	4,560	4,399
3949266	Baseball mitts and gloves.....	1,000 dozen.	308	13,630	279	11,685
3949267	Footballs.....	..do.....	226	5,049	xxx	5,742
3949271	Basketballs.....	..do.....	200	7,763	169	6,290
3949273	Inflatable athletic balls other than footballs and basketballs (including soccer balls, volley balls, etc.).....	..do.....	179	5,369	241	5,063
3949284	Sidewalk and rink roller skates.....	1,000 pairs.	4,540	9,530	5,441	9,727
3949285	Playground equipment.....	.....	xxx	20,068	xxx	21,700
3949253	Tennis balls.....	1,000 dozen.			545	2,348
3949298	Other sporting and athletic goods, including golf club shafts sold separately, ice skates, winter sports equipment, tennis rackets, boxing goods, caddy bags, racket strings, table tennis goods, squash goods, gymnasium equipment, hockey goods, archery equipment, etc., but excluding athletic clothing and shoes.....	.....	xxx	115,062	xxx	68,376
3949000	Sporting and athletic goods, nsk.....	.....	xxx	45,399	xxx	16,045

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>2,397 thousand units were shipped in 1958 and 1,865 thousand in 1954.<sup>2</sup>This classification includes model construction sets, consisting of prefabricated materials and parts, sold as a unit for assembly by the final user. It excludes parts and accessories sold separately, such as wood, motors, rubber, glue, paint, etc., which may be used for model construction.<sup>3</sup>Included with product code 3949229, "Other bowling alley playing supplies," to avoid disclosing figures for individual companies.<sup>4</sup>Some products, e.g., pin setters, are not sold but are leased. The values reported for such products represent the value of the product based on the valuation placed on them for tax, insurance, and similar purposes.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.-Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments
<u>Organs (39312):</u>			<u>Children's vehicles (39430)--Continued</u>	1958 <sup>1</sup>	1954	<u>Other sporting and athletic goods (39492):</u>	
United States, total:						United States, total:	
1958.....	79,375		South and West.....	17,646	2,805	1958.....	398,762
1954.....	37,454		California.....	5,237	2,805	1954.....	219,180
1951.....	27,407					1947.....	138,532
1947.....	14,453						
	1958 <sup>1</sup>			Value of shipments			1958 <sup>1</sup>
New England.....	3,581		<u>Fishing tackle and equipment (39491):</u>			New England.....	57,278
Middle Atlantic.....	11,946		United States, total:			Maine.....	2,153
			1958.....	75,759		Massachusetts.....	38,773
North Central.....	55,525		1954.....	67,449		Connecticut.....	9,745
Illinois.....	38,959		1947.....	57,778			
				1958 <sup>1</sup>		Middle Atlantic.....	101,174
South and West.....	8,323		New England.....	1,881		New York.....	70,574
			Middle Atlantic.....	13,916		New Jersey.....	8,104
	Value of shipments		New York.....	8,277		Pennsylvania.....	22,496
<u>Children's vehicles (39430):</u>						East North Central.....	148,245
United States, total:			East North Central.....	31,568		Ohio.....	54,439
1958.....	72,914		Ohio.....	6,270		Indiana.....	3,637
1957.....	75,560		Indiana.....	1,169		Illinois.....	47,287
1956.....	74,810		Illinois.....	2,100		Michigan.....	36,359
1955.....	71,694		Michigan.....	17,617		Wisconsin.....	6,523
1954.....	64,547		Wisconsin.....	4,412			
1947.....	86,458					West North Central.....	25,061
	1958 <sup>1</sup>	1954	West North Central.....	6,583		Minnesota.....	3,947
New England.....	8,843	8,642	Minnesota.....	3,024		Iowa.....	4,090
Massachusetts.....	8,209	8,540	Iowa.....	2,999		Missouri.....	16,181
Middle Atlantic.....	8,736	9,345	South Atlantic.....	5,859		South Atlantic.....	16,732
New York.....	6,749	7,882	Florida.....	1,794		Maryland.....	2,817
Pennsylvania.....	1,987	(2)				East South Central.....	22,346
			South Central.....	4,993		Alabama.....	5,777
East North Central.....	33,226	37,419	Mountain.....	6,102		West South Central.....	8,965
Ohio.....	8,482	17,189	Pacific.....	4,857		West.....	18,961
			California.....	3,911		California.....	17,012
West North Central.....	4,456	4,387					

Note: The figures shown for 1951 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 39312, New York, New Jersey, Pennsylvania, Ohio, Indiana, Maryland, Mississippi, and California; 39430, Indiana, Illinois, Michigan, Wisconsin, Missouri, Tennessee, and Alabama; 39491, Pennsylvania, Virginia, South Carolina, Oklahoma, Idaho, and Colorado; 39492, New Hampshire, Rhode Island, New York, New Jersey, Georgia, Kentucky, Tennessee, Arkansas, Louisiana, and Texas.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Shipments of less than \$1 million reported.

Table 7 not applicable to this report.



Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3931	MUSICAL INSTRUMENTS AND PARTS (entire industry).....	274	17,450	81,657	13,617	26,616	57,778	131,703	125,806	258,988	4,664
	Establishments with:										
	90% or more specialization.....	207	14,412	67,446	11,674	22,782	50,286	109,799	106,444	217,539	4,318
	75-89% specialization.....	10	1,103	4,789	934	1,895	3,690	6,619	4,974	11,606	( <sup>1</sup> )
39311	Pianos (primary product class of estab.).....	24	5,817	26,580	4,727	8,946	20,112	37,316	42,636	80,155	871
	Establishments with:										
	90% or more specialization....	18	2,975	13,846	2,420	4,634	10,558	21,711	23,199	45,092	617
39312	Organs (primary product class of estab.).....	50	3,659	16,990	2,402	4,948	9,675	29,850	47,370	78,192	1,338
39313	Piano and organ parts (primary product class of estab.).....	49	3,335	16,083	2,802	5,784	12,205	31,133	15,730	46,863	1,010
	Establishments with:										
	90% or more specialization....	40	2,872	14,122	2,399	4,980	10,669	27,875	13,652	41,502	986
	75-89% specialization.....	4	217	932	190	398	725	1,541	1,187	2,774	( <sup>1</sup> )
39314	Other musical instruments and parts (primary product class of estab.)..	101	4,364	21,020	3,461	6,528	15,038	31,183	18,585	50,057	1,354
	Establishments with:										
	90% or more specialization....	92	3,544	17,211	2,789	5,248	12,171	25,854	15,821	41,954	1,300
	75-89% specialization.....	5	671	3,084	555	1,061	2,373	4,281	1,811	6,108	( <sup>1</sup> )
3943	CHILDREN'S VEHICLES (entire industry)..	58	4,708	19,625	3,946	7,712	14,932	31,727	38,461	70,438	831
	Establishments with:										
	90% or more specialization.....	36	2,405	10,369	2,096	3,972	8,208	16,165	21,159	37,478	( <sup>1</sup> )
	75-89% specialization.....	5	452	1,849	298	598	1,067	2,586	3,200	5,887	( <sup>1</sup> )
3949	SPORTING AND ATHLETIC GOODS, NEC (entire industry).....	1,210	37,164	148,477	29,735	57,370	104,342	314,059	269,509	577,815	10,306
	Establishments with:										
	90% or more specialization.....	1,126	25,015	92,508	20,752	39,542	67,218	187,821	187,741	371,097	6,925
	75-89% specialization.....	23	2,013	7,750	1,692	3,223	5,944	14,891	10,703	26,661	755
39491	Fishing tackle and equipment (primary product class of estab.)..	164	7,147	26,111	5,904	11,542	18,043	50,617	34,621	83,773	1,529
	Establishments with:										
	90% or more specialization....	152	6,510	23,954	5,381	10,564	16,485	46,539	32,323	77,373	1,466
	75-89% specialization.....	5	174	494	127	213	293	875	577	1,453	( <sup>1</sup> )
39492	Other sporting and athletic goods (primary product class of estab.)..	279	26,025	110,371	20,382	39,851	76,192	240,595	209,593	446,572	6,668
	Establishments with:										
	90% or more specialization....	223	13,864	53,989	11,462	22,266	39,159	115,653	127,292	240,230	3,258
	75-89% specialization.....	24	2,704	10,549	2,221	4,168	7,889	17,809	14,119	33,229	884

<sup>1</sup>Less than \$500 thousand.





# Office Supplies, Costume Jewelry, and Miscellaneous Notions

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

## S.I.C. Code and Title (1957 Edition)

- 3951—Pens, Pen Points, Fountain Pens, Ball Point Pens, Mechanical Pencils and Parts
- 3952—Lead Pencils, Crayons, and Artists' Materials
- 3953—Marking devices
- 3955—Carbon Paper and Inked Ribbons
- 3961—Costume Jewelry and Costume Novelties, Except Precious Metal
- 3962—Feathers, Plumes, and Artificial Flowers
- 3963—Buttons
- 3964—Needles, Pins, Hooks and Eyes, and Similar Notions

## 3951—Pens, Pen Points, Fountain Pens, Ball Point Pens, Mechanical Pencils and Parts

This industry comprises establishments primarily engaged in manufacturing pens, pen points, fountain pens, ball point pens, refill cartridges, and parts for pens and mechanical pencils. For a detailed list of products of Industry 3951, refer to table 6A, product codes 3951011 to 3951071.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. Establishments primarily engaged in manufacturing refill ink cartridges for ball point pens, formerly classified in Industry 2899, Chemical Preparations, N.E.C., are now included in Industry 3951, Pens and Mechanical Pencils. The effects of this change are negligible. The establishments reclassified from Industry 2899 to Industry 3951 contributed to the new industry less than 1 percent of total employment and about 2 percent of value added.

Value of shipments and other receipts of the Pens and Mechanical Pencils Industry in 1958 totaled \$150 million. This included shipments of pens and mechanical pencils (primary products), valued at \$136 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts of \$3 million.

This industry's shipments of pens and mechanical pencils (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 89 percent. Secondary products shipped by this industry in 1958 consisted mainly of essential oils, fireworks, and pyrotechnics (\$3 million).

Industry 3951 shipments of pens and mechanical pencils (primary products) in 1958 represented 93 percent (coverage ratio) of these products valued at \$146 million shipped by all industries. In 1954, the coverage ratio was 95 percent. Another industry shipping pens and mechanical pencils was Industry 3952, Lead Pencils and Art Goods.

## 3952—Lead Pencils, Crayons, and Artists' Materials

This industry comprises establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; materials and equipment for art work such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in Industry 3951, and drafting instruments in Industry 3811. For a detailed list of products of Industry 3952, refer to table 6A, product codes 3952111 to 3952211.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the previous classification system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census is shown in table 1A: Establishments primarily engaged in manufacturing art goods, formerly classified in Industry 3954, Artists' Materials, are now included in Industry 3952, Lead Pencils and Art Goods.

Value of shipments and other receipts of the Lead Pencils and Art Goods Industry in 1958 totaled \$98 million. This included shipments of lead pencils, crayons, and artists' materials (primary products), valued at \$82 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts of \$5 million.

This industry's shipments of lead pencils, crayons, and art goods (primary products) in 1958 represented 88 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this Industry in 1958 included pens, mechanical pencils, and pen points (\$4 million).

Industry 3952 shipments of lead pencils, crayons, and artists' materials (primary products) in 1958 represented 92 percent (coverage ratio) of these products valued at \$89 million shipped by all industries.

## 3953—Marking Devices

This industry comprises establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking. For a detailed list of products of Industry 3953, refer to table 6A, product codes 3953011 to 3953098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Marking Devices Industry in 1958 totaled \$60 million. This included shipments of hand stamps and stencils, (primary products) valued at \$50 million, shipments of other products (secondary products) and miscellaneous receipts valued at \$9 million.



This industry's shipments of hand stamps and stencils (primary products) in 1958 represented 96 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 90 percent.

Industry 3953 shipments of hand stamps and stencils (primary products) in 1958 represented 86 percent (coverage ratio) of these products valued at \$59 million shipped by all industries. In 1954, the coverage ratio was 89 percent.

#### 3955—Carbon Paper and Inked Ribbons

This industry comprises establishments primarily engaged in manufacturing carbon paper for business machines, sales books, etc; spirit or gelatin process and other stencil paper; and inked ribbons for business machines. For a detailed list of products of Industry 3955, refer to table 6A, product codes 3955011 to 3955098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Carbon Paper and Inked Ribbons Industry in 1958 totaled \$126 million. This included shipments of carbon paper and inked ribbons (primary products), valued at \$106 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts of \$10 million.

This industry's shipments of carbon paper and inked ribbons (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent. Secondary products shipped by this industry in 1958 included other converted paper and board products, \$3 million.

Industry 3955 shipments of carbon paper and inked ribbons (primary products) in 1958 represented 89 percent (coverage ratio) of these products valued at \$119 million shipped by all industries. In 1954, the coverage ratio was 83 percent.

#### 3961—Costume Jewelry and Costume Novelties, Except Precious Metal

This industry comprises establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled gold plate and gold filled materials (Industry 3911). For a detailed list of products of Industry 3961, refer to table 6A, product codes 3961011 to 3961098.

The code number for this industry in the 1957 revision of the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the previous classification system. Establishments primarily engaged in manufacturing compacts and vanity cases, except precious metal, formerly classified in Industry 3986, Jewelry and Instrument Cases, are now included in Industry 3961, Costume Jewelry. The effects of this change are negligible. The establishments reclassified from Industry 3986 to Industry 3961 contributed to the new industry less than 1 percent of total employment and less than 1 percent of value added.

Value of shipments and other receipts of the costume jewelry industry in 1958 totaled \$254 million. This in-

cluded shipments of costume jewelry (primary products), valued at \$228 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts of \$13 million.

This industry's shipments of costume jewelry (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 95 percent. Secondary products shipped by this industry in 1958 included jewelry made of precious metal (\$4 million).

Industry 3961 shipments of costume jewelry (primary products) in 1958 represented 96 percent (coverage ratio) of these products valued at \$236 million shipped by all industries. In 1954, the coverage ratio was 95 percent. Another industry shipping costume jewelry was Industry 3911, Jewelry, Precious Metal.

#### 3962—Feathers, Plumes, and Artificial Flowers

This industry comprises establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage made from all materials except glass (Industry 3231); in producing fancy feathers, plumes, and articles made principally of feathers and plumes; and curling, dyeing, and renovating ostrich feathers for the trade.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Artificial Flowers Industry in 1958 totaled \$65 million. This included shipments of artificial flowers (primary products), valued at \$58 million, and shipments of other products (secondary products) and miscellaneous receipts valued at \$7 million.

This industry's shipments of artificial flowers (primary products) in 1958 represented 98 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 97 percent.

Industry 3962 shipments of artificial flowers (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$59 million shipped by all industries. In 1954, the coverage ratio was 98 percent.

#### 3963—Buttons

This industry comprises establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stones (Industry 3911). For a detailed list of products of Industry 3963, refer to table 6A, product codes 3963011 to 3963098.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Buttons Industry in 1958 totaled \$69 million. This included shipments of buttons (primary products), valued at \$62 million and shipments of other products and miscellaneous receipts valued at \$7 million.

This industry's shipments of buttons (primary products) in 1958 represented 98 percent (specialization ratio) of its



total product shipments (primary and secondary). The industry specialization ratio in 1954 was 92 percent.

Industry 3963 shipments of buttons (primary products) in 1958 represented 88 percent (coverage ratio) of these products valued at \$71 million shipped by all industries. In 1954, the coverage ratio was 89 percent. Another industry shipping buttons was Industry 3964, Needles, Pins, and Fasteners.

3964—Needles, Pins, Hooks and Eyes, and Similar Notions

This industry comprises establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners. For a detailed list of products of Industry 3964, refer to table 6A, product codes 3964111 to 3964289.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Needles, Pins, and Fasteners Industry in 1958 totaled \$221 million. This included shipments of needles, pins, and fasteners (primary products), valued at \$197 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts of \$8 million.

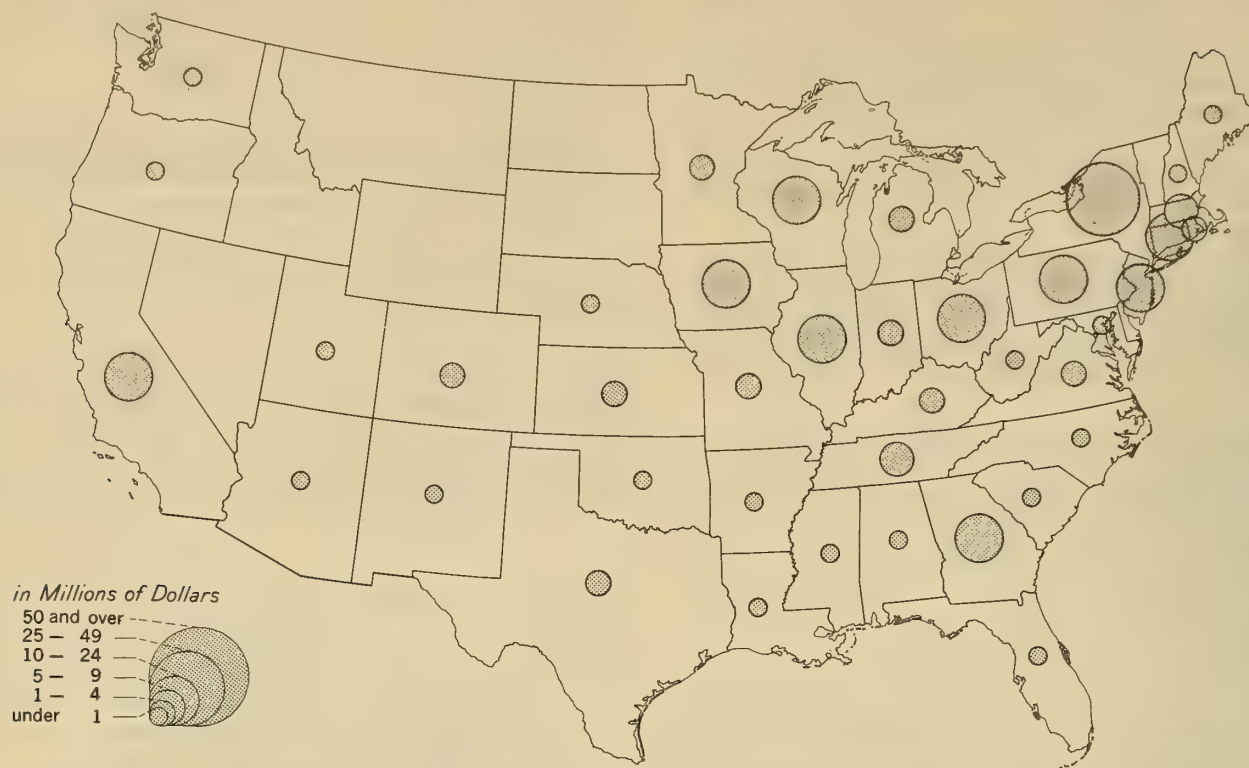
This industry's shipments of needles, pins, and fasteners (primary products) in 1958 represented 93 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 82 percent. Secondary products shipped by this industry in 1958 consisted mainly of other hardware, \$4 million and buttons, \$2 million.

Industry 3964 shipments of needles, pins, and fasteners (primary products) in 1958 represented 89 percent (coverage ratio) of these products valued at \$221 million shipped by all industries. In 1954, the coverage ratio was 91 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## PENS, PENCILS, AND OTHER OFFICE AND ARTISTS' MATERIALS: SIC 395

Value Added by Manufacture by State: 1958

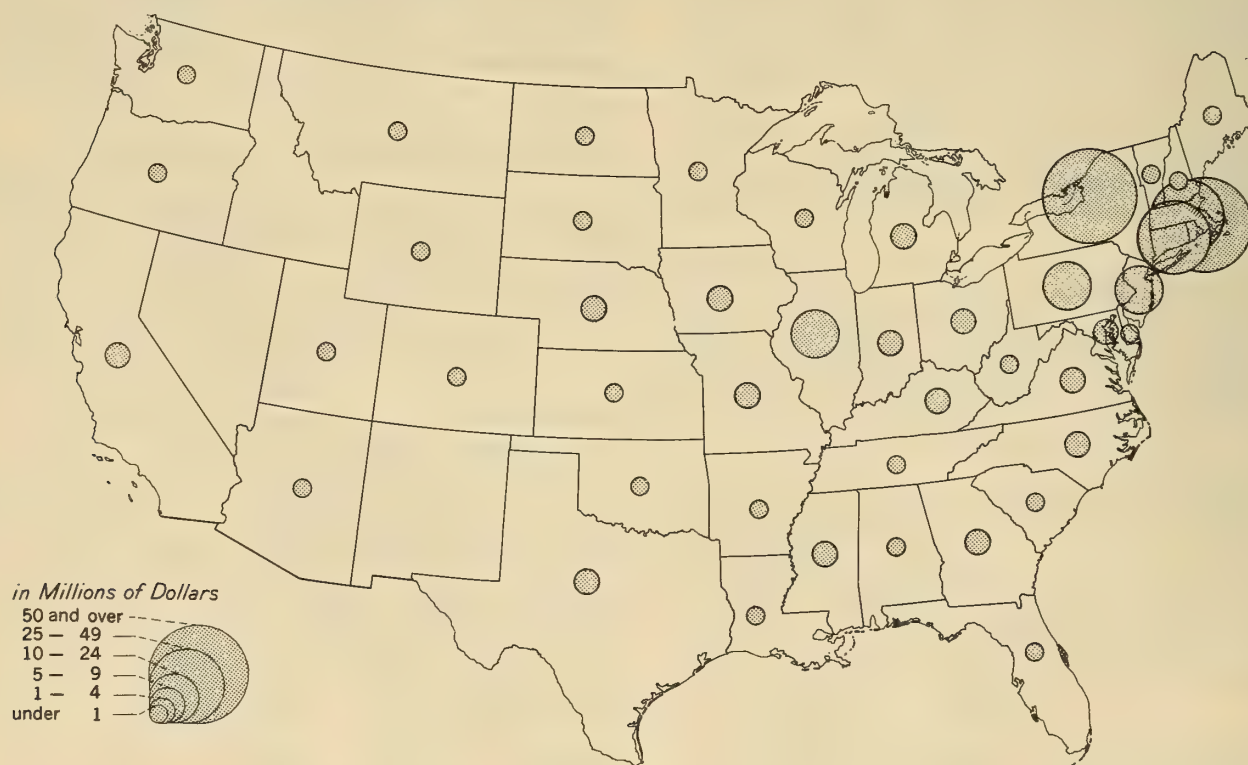


Includes Industries 3951, 3952, 3953 and 3955. See Table 2.

Bureau of the Census M-58-D395

COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND  
MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL: SIC 396

Value Added by Manufacture by State: 1958



Includes Industries 3961, 3962, 3963 and 3964. See Table 2.

Bureau of the Census M-58-D396



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expend- itures, new	Spec- ializa- tion <sup>6</sup> ratio (per- cent)	Cov- erage <sup>7</sup> ratio (per- cent)
			Total	With 20 or more employ- ees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3951 (old SIC 3951)	Pens and mechanical pencils:														
	1958.....	141	147	66	11,179	45,856	8,519	16,234	27,869	90,197	58,012	150,279	3,829	93	93
	1954.....	138	140	61	10,879	44,123	8,089	16,428	25,191	84,121	45,855	129,975	3,054	89	95
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,128	39,351	8,163	15,368	24,019	77,282	43,588	120,870	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,160	37,691	8,647	16,588	23,776	80,937	46,775	127,712	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,845	33,529	8,244	16,015	22,391	77,137	41,078	118,215	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,563	32,327	9,094	17,815	20,438	63,923	39,162	103,085	(NA)	(NA)	(NA)
	1947.....	180	184	80	15,553	40,606	12,527	24,705	28,207	89,897	57,471	147,368	3,865	93	95
	1939.....	(NA)	70	(NA)	6,323	7,860	4,463	(NA)	4,329	16,181	8,700	24,881	(NA)	(NA)	(NA)
	1937.....	(NA)	55	(NA)	(NA)	(NA)	5,703	(NA)	5,356	16,732	9,238	25,970	(NA)	(NA)	(NA)
3952 (old SIC 3952, 3954)	Lead pencils and art goods:														
	1958 <sup>9</sup> .....	138	146	54	6,687	26,183	4,711	9,366	14,746	47,909	49,098	98,494	2,049	88	92
	1954.....	(NA)	155	53	6,942	23,720	5,261	10,650	14,835	42,277	42,379	84,189	2,163	(NA)	(NA)
	1947.....	(NA)	110	45	7,639	17,946	6,187	12,732	12,353	29,601	28,734	58,335	1,370	(NA)	(NA)
	1939.....	(NA)	82	(NA)	5,591	6,939	4,176	(NA)	3,898	10,631	9,299	19,930	(NA)	(NA)	(NA)
	1937.....	(NA)	73	(NA)	(NA)	(NA)	4,788	(NA)	4,615	11,776	9,295	21,071	(NA)	(NA)	(NA)
3953 (old SIC 3953)	Marking devices:														
	1958.....	497	525	70	5,447	24,775	3,875	7,357	15,603	39,940	20,016	59,923	1,360	96	86
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,458	22,031	3,579	7,193	12,948	37,602	16,697	53,817	868	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,854	24,381	4,221	8,421	15,296	42,776	20,263	58,940	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,760	22,523	4,121	8,365	14,173	37,331	16,987	51,649	(S)	(NA)	(NA)
	1954.....	444	453	68	5,654	21,857	4,056	8,123	13,764	34,763	19,258	54,289	1,060	90	89
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,466	18,216	3,141	6,855	11,836	21,424	9,837	31,261	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,179	16,623	2,943	6,233	10,534	21,617	10,175	31,792	(NA)	(NA)	(NA)
	1947.....	415	425	62	4,556	12,483	3,362	7,406	8,426	19,486	7,973	27,459	924	89	89
	1939.....	(NA)	289	(NA)	3,333	4,697	2,211	(NA)	2,615	7,607	3,205	10,812	(NA)	(NA)	(NA)
	1937.....	(NA)	266	(NA)	3,284	4,793	2,375	(NA)	2,929	7,339	3,047	10,386	(NA)	(NA)	(NA)
	1935.....	(NA)	277	(NA)	3,118	4,145	2,255	(NA)	2,532	6,588	2,750	9,338	(NA)	(NA)	(NA)
	1933.....	(NA)	256	(NA)	2,866	2,990	2,196	(NA)	2,062	5,782	1,855	7,637	(NA)	(NA)	(NA)
	1931.....	(NA)	288	(NA)	(NA)	(NA)	2,496	(NA)	3,371	7,650	2,395	10,045	(NA)	(NA)	(NA)
	1929.....	(NA)	332	(NA)	3,901	6,428	2,971	(NA)	4,081	11,225	3,811	15,036	(NA)	(NA)	(NA)
	1927.....	(NA)	293	(NA)	3,743	6,240	2,668	(NA)	3,842	10,422	3,734	14,156	(NA)	(NA)	(NA)
	1925.....	(NA)	323	(NA)	4,077	6,624	2,930	(NA)	4,015	11,251	4,070	15,321	(NA)	(NA)	(NA)
	1923.....	(NA)	255	(NA)	3,214	4,865	2,312	(NA)	3,035	8,028	3,103	11,131	(NA)	(NA)	(NA)
	1921.....	(NA)	234	(NA)	2,786	4,186	2,068	(NA)	2,657	6,293	2,786	9,079	(NA)	(NA)	(NA)
	1919.....	(NA)	382	(NA)	2,964	3,666	2,136	(NA)	2,261	6,188	3,149	9,337	(NA)	(NA)	(NA)
	1914.....	(NA)	384	(NA)	2,338	1,734	1,767	(NA)	1,149	3,059	1,426	4,485	(NA)	(NA)	(NA)
	1909.....	(NA)	361	(NA)	2,164	1,384	1,651	(NA)	952	2,546	1,127	3,673	(NA)	(NA)	(NA)
	1904.....	(NA)	327	(NA)	1,786	1,021	1,506	(NA)	797	2,074	737	2,811	(NA)	(NA)	(NA)
	1899.....	(NA)	360	(NA)	1,641	837	1,470	(NA)	696	1,948	663	2,611	(NA)	(NA)	(NA)
3955 (old SIC 3955)	Carbon paper and inked ribbons:														
	1958.....	97	103	61	5,818	27,614	3,922	7,854	15,098	58,951	68,017	126,013	2,654	91	89
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,576	24,943	3,791	7,232	13,361	52,696	55,506	105,645	1,986	94	86
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,334	24,002	3,596	7,161	12,399	48,639	50,707	98,716	1,851	(NA)	(NA)
	1954.....	80	84	43	4,742	19,344	3,255	6,671	10,757	39,749	46,137	85,666	1,120	93	83
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	4,037	11,907	2,995	5,361	7,023	30,098	27,402	57,500	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,735	11,570	2,806	5,641	7,212	28,818	25,652	54,470	(NA)	(NA)	(NA)
	1947.....	63	67	34	3,681	10,622	2,558	5,677	6,264	23,615	25,021	48,636	940	90	90
	1939.....	(NA)	58	(NA)	3,014	4,970	1,741	(NA)	2,132	10,620	10,157	20,777	(NA)	(NA)	(NA)
	1937.....	(NA)	50	(NA)	2,119	3,361	1,627	(NA)	1,991	8,682	9,178	17,860	(NA)	(NA)	(NA)
	1935.....	(NA)	56	(NA)	1,954	3,011	1,425	(NA)	1,629	7,193	7,502	14,695	(NA)	(NA)	(NA)
	1933.....	(NA)	47	(NA)	1,608	1,988	1,171	(NA)	1,243	6,068	5,157	11,225	(NA)	(NA)	(NA)
	1931.....	(NA)	54	(NA)	(NA)	(NA)	1,198	(NA)	1,463	7,442	6,034	13,476	(NA)	(NA)	(NA)
	1929.....	(NA)	57	(NA)	1,760	3,233	1,251	(NA)	1,702	9,304	7,991	17,295	(NA)	(NA)	(NA)
	1927.....	(NA)	49	(NA)	1,499	2,628	1,078	(NA)	1,514	7,773	6,020	13,793	(NA)	(NA)	(NA)
3961 (old SIC 3961)	Costume jewelry:														
	1958.....	1,046	1,051	255	25,286	83,201	21,297	39,994	58,347	138,043	116,037	253,809	5,788	95	96
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	24,292	76,770	21,041	39,304	54,693	115,009	97,125	209,368	(S)	93	94
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	27,635	83,830	23,756	44,290	60,103	130,148	118,120	246,458	(S)	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	29,418	85,004	25,439	47,875	60,613	127,585	116,420	239,374	(S)	(NA)	(NA)
	1954.....	1,123	1,127	288	27,744	79,017	24,269	46,679	58,445	131,791	117,625	249,560	3,621	95	95
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,752	70,847	23,235	44,834	53,831	120,617	79,747	200,364	(NA)	(NA)	(NA)
	1947.....	855	859	212	25,371	59,487	22,266	46,532	45,979	107,224	63,070	170,294	3,146	90	91
	1939.....	(NA)	299	(NA)	(NA)	(NA)	12,228	(NA)	10,118	23,439	15,322	38,761	(NA)	(NA)	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Com- panies, number	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted	Cost of materials	Value of shipments	Capital expend- itures, new	Spec- ial- iza- tion ratio	Cov- er- age
			Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3962 (old SIC 3962)	Artificial flowers:														
		1958.....	428	431	101	6,770	19,021	5,932	11,038	14,377	34,650	30,465	64,969	886	98
		1954.....	466	471	103	7,306	17,299	6,690	12,009	13,446	29,924	23,293	52,968	(10)	97
		1947.....	443	445	91	7,130	15,448	6,569	12,348	10,713	23,813	15,650	39,463	515	97
		1939.....	(NA)	314	(NA)	7,723	6,650	(NA)	4,582	11,080	7,424	18,504	(NA)	(NA)	(NA)
		1937.....	(NA)	250	(NA)	6,780	5,511	6,216	(NA)	4,330	9,329	7,369	16,698	(NA)	(NA)
		1933.....	(NA)	171	(NA)	2,915	2,138	2,660	(NA)	1,832	4,572	2,708	7,280	(NA)	(NA)
		1929.....	(NA)	230	(NA)	3,960	4,912	3,473	(NA)	3,527	9,653	5,914	15,567	(NA)	(NA)
		1919.....	(NA)	336	(NA)	6,639	7,373	5,947	(NA)	5,966	12,927	10,148	23,075	(NA)	(NA)
		1917.....	(NA)	440	(NA)	8,627	9,022	7,642	(NA)	7,147	17,822	13,699	31,521	(NA)	(NA)
		1914.....	(NA)	456	(NA)	10,358	5,274	9,291	(NA)	3,979	9,756	9,309	19,065	(NA)	(NA)
		1909.....	(NA)	412	(NA)	11,063	5,134	10,016	(NA)	3,974	10,354	13,627	23,981	(NA)	(NA)
		1899.....	(NA)	224	(NA)	5,616	1,853	5,331	(NA)	1,561	3,530	2,763	6,293	(NA)	(NA)
3963 (old SIC 3963)	Buttons:														
		1958.....	347	356	87	6,462	21,526	5,504	10,425	15,817	37,967	30,618	68,609	1,414	98
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,037	20,993	6,237	11,404	16,147	37,063	23,357	59,104	(S)	(NA)
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,586	25,382	7,574	13,994	19,392	40,407	25,052	65,309	(S)	(NA)
		1954.....	395	409	109	8,471	23,235	7,430	14,123	17,483	38,219	31,078	69,117	1,139	92
		1947.....	412	454	122	10,564	22,077	9,556	19,055	17,745	34,695	24,838	59,533	1,131	93
		1939.....	(NA)	316	(NA)	12,418	11,764	10,972	(NA)	8,623	17,344	12,473	29,817	(NA)	(NA)
		1937.....	(NA)	291	(NA)	13,081	11,574	12,026	(NA)	9,256	17,713	13,578	31,291	(NA)	(NA)
		1933.....	(NA)	200	(NA)	10,454	7,661	9,888	(NA)	6,706	13,798	8,614	22,412	(NA)	(NA)
		1929.....	(NA)	242	(NA)	9,928	11,256	9,034	(NA)	8,814	17,477	11,501	28,978	(NA)	(NA)
		1921.....	(NA)	346	(NA)	10,794	10,824	9,686	(NA)	8,511	16,128	10,406	26,534	(NA)	(NA)
		1919.....	(NA)	557	(NA)	17,183	17,122	15,577	(NA)	13,773	25,095	16,745	41,840	(NA)	(NA)
		1914.....	(NA)	517	(NA)	15,760	8,075	14,511	(NA)	6,424	12,010	8,702	20,712	(NA)	(NA)
		1909.....	(NA)	444	(NA)	17,485	8,088	16,427	(NA)	6,789	13,167	9,541	22,708	(NA)	(NA)
		1899.....	(NA)	238	(NA)	9,024	3,123	8,685	(NA)	2,826	4,893	2,803	7,696	(NA)	(NA)
3964 (old SIC 3964)	Needles, pins, and fasteners:														
		1958.....	340	367	128	17,756	69,873	14,251	26,723	47,957	127,664	93,645	220,517	4,276	93
		1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,207	82,096	16,263	31,349	57,300	137,590	104,471	243,436	6,935	82
		1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,357	87,738	18,065	35,530	62,571	140,729	112,398	253,726	6,146	(NA)
		1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	23,645	87,368	19,606	38,895	63,545	139,601	103,264	239,118	5,506	(NA)
		1954.....	349	357	130	23,152	80,846	18,893	35,935	56,674	118,378	84,194	206,602	4,981	82
		1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	26,468	90,251	22,056	43,365	66,716	124,284	95,320	219,604	(NA)	(NA)
		1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,817	57,541	15,084	28,241	41,927	90,842	48,439	139,281	(NA)	(NA)
		1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	20,320	63,768	17,456	33,281	48,453	104,339	64,579	168,918	(NA)	(NA)
		1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	22,220	68,753	18,647	38,102	51,700	123,545	66,005	189,550	(NA)	(NA)
		1947.....	273	277	115	22,959	58,791	19,341	39,309	44,328	97,292	49,929	147,221	5,578	91
		1939.....	(NA)	79	(NA)	(NA)	(NA)	11,139	(NA)	12,428	27,267	14,609	41,876	(NA)	(NA)
		1937.....	(NA)	52	(NA)	11,211	13,665	9,580	(NA)	10,154	25,949	10,291	36,240	(NA)	(NA)
		1935.....	(NA)	50	(NA)	11,294	12,474	10,104	(NA)	9,494	23,447	9,383	32,830	(NA)	(NA)
		1933.....	(NA)	45	(NA)	7,044	7,132	6,412	(NA)	5,768	16,940	5,818	22,758	(NA)	(NA)
		1931.....	(NA)	46	(NA)	(NA)	(NA)	5,354	(NA)	5,667	15,500	4,842	20,342	(NA)	(NA)
		1929.....	(NA)	43	(NA)	7,014	8,587	6,242	(NA)	6,566	15,843	6,188	22,031	(NA)	(NA)
		1927.....	(NA)	45	(NA)	6,328	7,964	5,606	(NA)	6,098	14,402	5,923	20,325	(NA)	(NA)
		1925.....	(NA)	48	(NA)	6,463	7,357	5,850	(NA)	5,856	12,248	5,926	18,174	(NA)	(NA)
		1923.....	(NA)	49	(NA)	7,660	8,720	6,834	(NA)	6,703	14,351	7,796	22,147	(NA)	(NA)
		1921.....	(NA)	68	(NA)	7,358	7,350	6,542	(NA)	5,542	12,733	6,163	18,896	(NA)	(NA)
		1919.....	(NA)	92	(NA)	10,350	11,316	9,294	(NA)	8,810	19,078	10,227	29,305	(NA)	(NA)
		1914.....	(NA)	49	(NA)	5,730	3,105	5,339	(NA)	2,507	4,649	3,242	7,891	(NA)	(NA)
		1909.....	(NA)	49	(NA)	4,951	2,458	4,638	(NA)	2,064	4,365	2,329	6,694	(NA)	(NA)
		1904.....	(NA)	46	(NA)	4,065	1,849	3,965	(NA)	1,596	3,167	1,584	4,751	(NA)	(NA)
		1899.....	(NA)	52	(NA)	2,761	1,215	2,653	(NA)	1,067	2,010	1,228	3,238	(NA)	(NA)

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

Footnotes continued on next page



Footnotes for Table 1—39C

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3951	83,793	3961	129,239
3952	41,060	3962	28,952
3953	32,466	3963	36,679
3955	37,758	3964	121,625

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3951	56,430	44,746	3961	110,795	110,169
3952	45,595	37,429	3962	27,405	21,038
3953	15,650	15,160	3963	28,841	28,089
3955	60,721	43,431	3964	88,832	81,497

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3951	148,137	128,540	3961	244,666	239,409
3952	93,406	78,491	3962	60,376	49,990
3953	53,852	47,627	3963	65,785	64,769
3955	116,449	81,190	3964	214,486	203,122

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: 3952, "Lead Pencils" and Industry 3954, "Artists' Materials". The data for 1954 and earlier years for these two industries have been combined.

<sup>10</sup>Less than \$500 thousand.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3952—Lead pencils and art goods, total.....	146	54	6,687	47,909	xxx	xxx	xxx	xxx
Old Industry 3952—Lead pencils.....	53	33	4,891	35,980	53	33	4,891	35,980
Old Industry 3954—Artists' materials.....	93	21	1,796	11,929	93	21	1,796	11,929

<sup>1</sup>These totals may represent slight revisions from the preliminary figures previously published for these industries.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3951	Pens and mechanical pencils, total	147	66	11,179	45,856	8,519	16,234	27,869	90,197	150,279	3,829	10,879	83,793	15,553
	New England.....	12	5	644	2,442	540	1,017	1,681	3,270	6,248	(2)	666	2,676	818
	Rhode Island....	6	2	214	655	198	353	502	1,074	1,699	(2)	(3)	(3)	(3)
	Middle Atlantic...	82	37	3,948	14,174	3,332	6,401	9,954	23,455	48,813	1,042	3,251	20,545	4,126
	New York.....	67	29	2,282	6,225	2,096	3,944	4,983	10,891	28,442	503	1,408	6,460	2,164
	East North Central	14	6	2,102	10,658	1,188	2,059	4,815	20,781	29,236	(D)	2,768	23,659	(D)
	West North Central	8	6	1,721	7,498	1,289	2,462	4,835	16,657	23,551	(D)	2,382	21,668	(D)
	South.....	10	4	1,730	6,276	1,372	2,752	3,570	13,888	19,212	794	1,122	8,710	1,359
	Pacific.....	21	8	1,034	4,808	798	1,543	3,014	12,146	23,219	843	689	6,532	199
	California.....	21	8	1,034	4,808	798	1,543	3,014	12,146	23,219	843	689	6,532	199
3952	Lead pencils and art goods, total...	146	54	6,687	26,183	4,711	9,366	14,746	47,909	98,494	2,049	6,942	41,060	7,639
	New England.....	14	6	902	4,182	574	1,228	2,088	5,968	12,271	(2)	183	1,192	(D)
	Middle Atlantic...	66	21	2,569	10,229	1,767	3,361	5,618	18,093	34,236	1,115	4,072	24,805	4,709
	New York.....	37	9	632	2,231	468	902	1,411	4,398	8,629	(2)	1,966	10,925	2,355
	New Jersey.....	17	6	762	2,940	498	911	1,588	4,173	8,936	(2)	(3)	(3)	(3)
	Pennsylvania.....	12	6	1,175	5,058	801	1,548	2,619	9,522	16,671	791	(3)	(3)	(3)
	North Central....	32	13	1,586	5,831	1,084	2,112	3,378	11,887	22,761	(2)	1,228	7,853	(D)
	Ohio.....	7	5	788	2,861	471	884	1,566	5,420	11,485	(2)	(3)	(3)	(3)
	South.....	15	11	1,453	5,035	1,149	2,408	3,119	9,817	25,559	(2)	(3)	(3)	(3)
	Tennessee.....	8	7	1,069	3,871	828	1,764	2,289	7,758	21,455	(2)	(3)	(3)	(3)
	Pacific.....	19	3	177	906	137	257	543	2,144	3,667	(2)	161	1,325	(D)
3953	Marking devices, hand stamps and stencils, total....	525	70	5,447	24,775	3,875	7,357	15,603	39,940	59,923	1,360	5,654	32,466	4,556
	New England.....	52	6	440	2,048	319	644	1,365	3,196	4,315	(2)	516	2,900	(D)
	Massachusetts...	36	3	285	1,309	212	427	872	2,105	2,888	(2)	182	902	276
	Connecticut.....	12	2	111	525	79	163	364	772	1,032	(2)	278	1,652	44
	Middle Atlantic...	129	20	1,945	9,000	1,424	2,718	5,699	13,379	19,615	(2)	2,147	12,055	1,836
	New York.....	67	9	848	3,554	636	1,150	2,307	5,898	8,916	(2)	1,033	5,907	771
	New Jersey.....	29	4	299	1,489	237	460	1,041	2,525	3,633	(2)	223	1,189	297
	Pennsylvania.....	33	7	798	3,957	551	1,108	2,351	4,956	7,066	(2)	890	4,958	768
	East North Central	121	23	1,428	7,005	986	1,959	4,424	10,895	16,857	(2)	1,538	9,813	1,155
	Ohio.....	34	5	311	1,515	206	421	922	2,377	3,292	(2)	(3)	(3)	(3)
	Illinois.....	44	13	753	3,702	535	1,079	2,397	5,593	9,345	(2)	871	5,403	596
	Michigan.....	28	3	243	1,276	154	296	743	1,977	2,938	(2)	229	1,568	254
	West North Central	30	6	323	1,563	210	396	858	3,206	4,838	(2)	322	1,588	457
	Missouri.....	10	3	128	680	75	151	360	1,271	2,170	(2)	(3)	(3)	(3)
	South Atlantic...	56	3	330	1,150	250	454	821	2,311	3,439	(2)	256	1,293	(D)
	East South Central	16	2	123	402	95	188	286	588	1,034	(2)	97	434	(D)
	West South Central	33	1	165	560	117	198	376	1,253	1,866	(2)	167	951	(D)
	Texas.....	22	1	114	388	83	137	268	921	1,322	(2)	(3)	(3)	(3)
	West.....	88	9	693	3,047	474	800	1,774	5,112	7,959	(2)	608	3,430	(D)
	California.....	62	5	452	2,053	321	517	1,146	3,510	5,606	(2)	(3)	(3)	(3)
3955	Carbon paper and inked ribbons, total.....	103	61	5,818	27,614	3,922	7,854	15,098	58,951	126,013	2,654	4,742	37,758	3,681
	New England.....	10	8	730	3,030	502	977	1,715	7,711	16,484	(2)	(3)	(3)	(3)
	Middle Atlantic...	43	26	2,894	13,503	1,900	3,760	7,220	27,554	57,974	1,817	2,445	20,265	2,128
	New York.....	28	18	1,991	9,427	1,268	2,565	4,710	20,891	41,751	1,583	1,576	14,484	1,501
	North Central....	26	13	1,325	6,883	850	1,801	3,584	15,947	32,203	(2)	982	8,619	767
	Illinois.....	13	9	533	2,405	386	792	1,515	7,428	12,787	(2)	506	4,848	362
	South.....	8	6	222	872	179	360	622	2,086	4,882	(2)	232	1,084	(D)
	West.....	16	8	647	3,326	491	956	1,957	5,653	14,470	(2)	(3)	(3)	(3)
3961	Costume jewelry, total.....	1,051	255	25,286	83,201	21,297	39,994	58,347	138,043	253,809	5,788	27,744	129,239	25,371
	New England.....	400	126	14,860	49,368	12,807	24,228	34,581	77,971	137,277	2,644	15,484	67,490	12,257
	Massachusetts...	34	21	3,674	14,151	3,123	6,132	9,040	24,885	37,760	(2)	3,592	18,777	2,992
	Rhode Island....	356	103	10,878	33,693	9,462	17,637	24,846	50,986	96,487	2,326	11,670	47,280	8,806
	Middle Atlantic...	496	107	8,780	28,577	7,180	13,379	19,859	50,158	99,656	2,472	11,033	56,102	10,699
	New York.....	467	99	8,116	26,619	6,604	12,313	18,464	46,869	93,086	2,333	10,438	53,430	7,252
	New Jersey.....	22	7	596	1,760	535	989	1,275	2,921	6,111	(D)	519	2,086	2,724
	East North Central	36	7	550	1,941	423	841	1,512	4,057	6,911	(2)	(3)	(3)	(3)
	Illinois.....	23	5	463	1,631	353	722	1,268	2,557	4,002	(2)	(3)	(3)	(3)
	West North Central	7	1	111	379	79	153	262	574	920	(2)	(3)	(3)	(3)
	South.....	46	7	338	828	277	458	596	1,304	2,462	(2)	217	925	303
	Florida.....	31	2	135	240	117	177	213	481	927	(2)	(3)	(3)	(3)
	Mountain.....	11	1	89	170	70	98	138	493	830	(2)	(3)	(3)	(3)
	Pacific.....	54	6	557	1,937	460	836	1,398	3,483	5,748	(2)	(3)	(3)	(3)
	California.....	46	5	520	1,819	427	773	1,298	3,278	5,394	(2)	457	2,351	234

See footnotes at end of table.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted	Value of shipments	Capital expend- itures, new	All em- ployees, number	Value added by manufac- ture, unadjusted	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3962	Artificial flowers, total.....	431	101	6,770	19,021	5,932	11,038	14,377	34,650	64,969	886	7,306	28,952	7,130
	New England.....	16	2	563	1,516	525	1,014	1,237	2,483	3,762	( <sup>2</sup> )	528	1,795	(D)
	Middle Atlantic....	284	69	4,516	13,190	3,955	7,523	9,986	24,808	47,992	565	5,099	20,827	5,791
	New York.....	247	55	3,465	10,160	3,034	5,743	7,786	19,707	35,927	( <sup>2</sup> )	4,282	17,781	5,114
	New Jersey.....	17	5	333	800	292	531	648	1,716	3,077	( <sup>2</sup> )	204	725	241
	Pennsylvania....	20	9	718	2,230	629	1,249	1,552	3,385	8,988	( <sup>2</sup> )	611	2,320	436
	East North Central	50	12	720	2,175	606	1,052	*1,464	3,562	6,051	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Ohio.....	13	3	132	404	109	197	265	751	1,247	( <sup>2</sup> )	100	385	23
	Illinois.....	18	4	275	855	236	375	540	1,453	2,217	( <sup>2</sup> )	459	2,185	372
	West North Central	22	5	246	577	210	342	432	871	1,723	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Missouri.....	6	2	101	278	87	151	200	429	878	( <sup>2</sup> )	48	147	158
	South.....	29	10	528	1,156	464	818	917	2,006	3,858	( <sup>2</sup> )	421	1,342	(D)
	Texas.....	5	3	236	464	215	374	408	753	1,426	( <sup>2</sup> )	( <sup>3</sup> )	..	..
	West.....	30	3	197	407	172	289	341	920	1,583	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3963	Buttons, total.....	356	87	6,462	21,526	5,504	10,425	15,817	37,967	68,609	1,414	8,471	36,679	10,564
	New England.....	19	6	608	2,230	516	1,034	1,656	3,905	6,500	( <sup>2</sup> )	574	2,666	(D)
	Connecticut.....	6	3	417	1,593	350	720	1,199	2,900	4,992	( <sup>2</sup> )	363	1,384	638
	Middle Atlantic....	260	59	3,880	13,198	3,297	6,152	9,724	24,201	43,637	856	4,921	23,509	(D)
	New York.....	229	48	3,172	10,660	2,690	4,999	7,803	20,097	35,877	715	4,144	19,987	4,238
	New Jersey.....	28	11	675	2,431	579	1,103	1,835	3,944	7,378	(D)	683	3,079	794
	North Central.....	33	13	1,151	3,708	949	1,743	2,460	5,615	9,896	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Illinois.....	11	1	126	529	101	176	356	717	1,199	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South.....	28	8	734	2,148	663	1,331	1,768	3,813	7,948	( <sup>2</sup> )	944	3,578	1,308
	Pacific.....	16	1	89	242	79	165	209	433	628	( <sup>2</sup> )	81	319	(D)
3964	Needles, pins and fasteners, total...	367	128	17,756	69,873	14,251	26,723	47,957	127,664	220,517	4,276	23,152	121,625	22,959
	New England.....	61	33	6,017	25,734	4,812	8,810	17,933	41,563	63,026	1,546	10,365	59,663	8,845
	Rhode Island....	6	4	887	3,111	687	1,124	1,915	5,602	8,678	( <sup>2</sup> )	941	3,858	917
	Connecticut.....	38	23	4,446	19,807	3,526	6,520	13,783	31,118	47,633	1,208	8,454	50,896	5,438
	Middle Atlantic....	252	72	8,509	33,195	6,641	12,467	22,085	58,054	110,319	1,902	10,574	49,178	11,642
	New York.....	224	57	5,246	19,223	4,278	7,764	13,193	30,780	67,193	1,235	5,802	28,589	5,108
	New Jersey.....	21	10	1,332	5,569	1,126	2,264	4,026	12,851	21,559	( <sup>2</sup> )	1,757	8,648	1,837
	Pennsylvania....	7	5	1,931	8,403	1,237	2,439	4,866	14,423	21,567	( <sup>2</sup> )	3,015	11,940	4,697
	North Central.....	30	13	1,910	6,966	1,579	3,021	4,539	16,148	26,163	( <sup>2</sup> )	1,417	7,636	1,844
	Illinois.....	12	7	1,062	4,243	827	1,539	2,527	7,788	12,281	( <sup>2</sup> )	828	4,474	1,389
	South.....	16	8	1,183	3,514	1,102	2,213	3,028	11,040	19,309	( <sup>2</sup> )	694	4,768	(D)
	West.....	8	2	137	464	117	212	372	859	1,700	( <sup>2</sup> )	101	378	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3951, Pens and Mechanical Pencils: New England—Massachusetts, 2 (20-99); Connecticut, 4 (250-499); Middle Atlantic—New Jersey, 13 (1,000-2,499); Pennsylvania, 2 (1-19); East North Central—Ohio, 1 (1-19); Illinois, 7 (250-499); Michigan, 4 (20-99); Wisconsin, 2 (1,000-2,499); West North Central—Minnesota, 2 (20-99); Iowa, 2 (1,000-2,499); Missouri, 4 (250-499); South—Virginia, 2 (100-249); Georgia, 1 (1,000-2,499); Florida, 2 (1-19); Kentucky, 2 (1-19); Tennessee, 2 (20-99); Oklahoma, 1 (1-19).

SIC 3952, Lead Pencils and Art Goods: New England—New Hampshire, 1 (100-249); Massachusetts, 7 (20-99); Rhode Island, 1 (1-19); Connecticut, 5 (500-999); North Central—Indiana, 2 (100-249); Illinois, 9 (100-249); Michigan, 3 (1-19); Wisconsin, 4 (100-249); Minnesota, 2 (1-19); Missouri, 2 (100-249); Nebraska, 1 (1-19); Kansas, 2 (20-99); South—Virginia, 1 (100-249); West Virginia, 1 (20-99); Georgia, 1 (100-249); Kentucky, 2 (20-99); Alabama, 1 (1-19); Texas, 1 (1-19); Pacific—Oregon, 1 (1-19); California, 18 (100-249).

SIC 3953, Marking Devices: New England—Maine, 1 (1-19); Rhode Island, 3 (20-99); East North Central—Indiana, 8 (20-99); Wisconsin, 7 (20-99); West North Central—Minnesota, 7 (100-249); Iowa, 6 (20-99); Nebraska, 4 (20-99); Kansas, 3 (1-19); South Atlantic—Maryland, 8 (20-99); District of Columbia, 3 (20-99); Virginia, 5 (20-99); West Virginia, 3 (1-19); North Carolina, 5 (20-99); South Carolina, 1 (1-19); Georgia, 6 (20-99); Florida, 25 (20-99); East South Central—Kentucky, 6 (20-99); Tennessee, 6 (20-99); Alabama, 3 (1-19); Mississippi, 1 (1-19); West South Central—Arkansas, 2 (1-19); Louisiana, 5 (20-99); Oklahoma, 4 (1-19); West—Colorado, 5 (20-99); New Mexico, 3 (1-19); Arizona, 4 (1-19); Utah, 1 (20-99); Washington, 8 (20-99); Oregon, 5 (1-19).

SIC 3955, Carbon Paper and Inked Ribbons: New England—Maine, 1 (20-99); Massachusetts, 5 (250-499); Connecticut, 4 (250-499); Middle Atlantic—New Jersey, 7 (500-999); Pennsylvania, 8 (100-249); North Central—Ohio, 7 (250-499); Michigan, 3 (100-249); Minnesota, 2 (1-19); Iowa, 1 (100-249); Missouri, 1 (1-19); South—Virginia, 1 (20-99); Georgia, 1 (20-99); Kentucky, 2 (20-99); Tennessee, 1 (1-19); Texas, 3 (100-249); West—Colorado, 2 (100-249); Washington, 1 (100-249); Oregon, 1 (20-99); California, 12 (250-499).

SIC 3961, Costume Jewelry: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Connecticut, 7 (250-499); Middle Atlantic—Pennsylvania, 7 (20-99); East North Central—Ohio, 5 (20-99); Indiana, 3 (20-99); Michigan, 4 (1-19); Wisconsin, 1 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 1 (1-19); Missouri, 2 (100-249); South Dakota, 1 (1-19); Nebraska, 1 (1-19); South—Maryland, 1 (1-19); Georgia, 1 (20-99); Kentucky, 1 (1-19); Tennessee, 1 (1-19); Alabama, 1 (20-99); Louisiana, 1 (1-19); Oklahoma, 1 (20-99); Texas, 8 (20-99); Mountain—Wyoming, 1 (1-19); Colorado, 6 (20-99); Arizona, 4 (20-99); Pacific—Washington, 5 (20-99); Oregon, 3 (1-19).

SIC 3962, Artificial Flowers: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Vermont, 1 (1-19); Massachusetts, 4 (1-19); Rhode Island, 7 (500-999); Connecticut, 1 (1-19); East North Central—Indiana, 8 (100-249); Michigan, 4 (20-99); Wisconsin, 7 (20-99); West North Central—Minnesota, 6 (20-99); Iowa, 7 (20-99); Nebraska, 1 (1-19); Kansas, 2 (1-19); South—Delaware, 2 (20-99); Maryland, 2 (20-99); Virginia, 2 (1-19); West Virginia, 1 (1-19); North Carolina, 5 (20-99); Florida, 7 (20-99); Alabama, 2 (20-99); Louisiana, 1 (1-19); Oklahoma, 2 (1-19); West—Montana, 3 (1-19); Colorado, 3 (20-99); Arizona, 1 (1-19); Utah, 1 (1-19); Washington, 4 (20-99); Oregon, 2 (1-19); California, 16 (20-99).

SIC 3963, Buttons: New England—New Hampshire, 1 (20-99); Massachusetts, 9 (100-249); Rhode Island, 3 (20-99); Middle Atlantic—Pennsylvania, 3 (20-99); North Central—Ohio, 1 (1-19); Michigan, 1 (100-249); Iowa, 17 (500-999); Missouri, 2 (1-19); North Dakota, 1 (1-19); South—Delaware, 10 (20-99); Maryland, 4 (100-249); Virginia, 3 (100-249); Kentucky, 1 (100-249); Tennessee, 2 (20-99); Arkansas, 3 (1-19); Texas, 5 (1-19); Pacific—Washington, 1 (20-99); California, 15 (20-99).

SIC 3964, Needles, Pins and Fasteners: New England—New Hampshire, 1 (100-249); Massachusetts, 16 (500-999); North Central—Ohio, 2 (1-19); Michigan, 4 (20-99); Wisconsin, 4 (20-99); Iowa, 1 (1-19); Missouri, 5 (20-99); Nebraska, 1 (500-999); Kansas, 1 (1-19); South—Virginia, 1 (250-499); North Carolina, 2 (100-249); South Carolina, 1 (20-99); Georgia, 3 (250-499); Florida, 3 (20-99); Alabama, 1 (1-19); Mississippi, 2 (250-499); Texas, 3 (20-99); West—Colorado, 3 (20-99); California, 5 (100-249).

<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.

Table 3.-Detailed Statistics for the United States: 1958

Item	Pens and mechanical pencils (SIC 3951)	Lead pencils and art goods (SIC 3952)	Marking devices (SIC 3953)	Carbon paper and inked ribbons (SIC 3955)	Costume jewelry (SIC 3961)	Artificial flowers (SIC 3962)	Buttons (SIC 3963)	Needles, pins, and fasteners (SIC 3964)
Primary product specialization ratio <sup>1</sup> .....	93	88	96	91	95	98	98	93
Coverage ratio <sup>2</sup> .....	93	92	86	89	96	98	88	89
Number of establishments, total.....	147	146	525	103	1,051	431	356	367
With 1-19 employees.....	81	92	455	42	796	330	269	239
With 20-99 employees.....	43	35	65	45	207	95	75	91
With 100 employees or more.....	23	19	5	16	48	6	12	37
Proprietors and working partners.....Number..	61	73	409	25	687	347	293	176
All employees:								
Number (average for the year).....	11,179	6,687	5,447	5,818	25,286	6,770	6,462	17,756
Payroll.....\$1,000..	45,856	26,183	24,775	27,614	83,201	19,021	21,526	69,873
Production workers:								
Number (average for the year).....	8,519	4,711	3,875	3,922	21,297	5,932	5,504	14,251
March.....	8,193	4,685	3,907	3,871	19,961	5,923	5,460	14,127
May.....	8,326	4,642	3,942	3,947	19,143	5,369	5,344	13,899
August.....	8,351	4,850	3,886	3,951	22,598	5,724	5,615	14,575
November.....	9,207	4,725	3,942	3,920	23,750	6,892	5,659	14,497
Man-hours.....1,000..	16,234	9,366	7,357	7,854	39,994	11,038	10,425	26,723
January-March.....do....	3,768	2,350	1,814	2,012	9,126	2,666	2,531	6,461
April-June.....do....	4,133	2,370	1,780	1,974	9,009	2,510	2,535	6,633
July-September.....do....	3,820	2,353	1,716	1,881	9,987	2,584	2,575	6,538
October-December.....do....	4,482	2,245	1,812	1,963	11,312	3,095	2,670	6,942
Wages.....\$1,000..	27,869	14,746	15,603	15,098	58,347	14,377	15,817	47,957
Cost of materials, etc., total.....do....	58,012	49,098	20,016	68,017	116,037	30,465	30,618	93,645
Materials, parts, containers, and supplies consumed.....do....	54,031	44,411	14,652	59,528	96,813	26,432	27,251	84,503
Cost of resales.....do....	1,582	3,503	4,366	7,296	5,242	3,060	1,777	4,813
Fuels consumed.....do....	228	434	157	317	511	235	256	779
Electricity purchased.....do....	669	465	341	457	1,238	281	572	1,219
Contract work.....do....	1,502	285	500	419	12,233	457	762	2,331
Value of shipments (including resales), total.....do....	150,279	98,494	59,923	126,013	253,809	64,969	68,609	220,517
Value of resales.....do....	2,142	5,088	6,071	9,564	9,143	4,593	2,824	6,031
Value added by manufacture, adjusted...do....	90,197	47,909	39,940	58,951	138,043	34,650	37,967	127,664
Manufacturers' inventories:								
Beginning of year, total.....do....	28,223	22,554	5,862	21,873	34,187	7,580	11,516	37,629
Finished products.....do....	7,108	9,732	1,917	6,521	13,154	2,719	5,888	15,265
Work-in-process.....do....	12,210	4,951	920	3,934	6,574	1,025	2,369	11,142
Materials, supplies, fuel, etc.....do....	8,905	7,871	3,025	11,418	14,459	3,836	3,259	11,222
End of year, total.....do....	26,198	21,980	5,870	21,858	35,234	7,644	11,259	37,373
Finished products.....do....	6,933	9,182	1,929	6,327	12,116	2,943	5,868	14,969
Work-in-process.....do....	10,315	4,014	941	5,083	7,883	947	2,365	12,230
Materials, supplies, fuel, etc.....do....	8,950	8,784	3,000	10,448	15,235	3,754	3,026	10,174
Expenditures for plant and equipment, total.....do....	4,280	2,051	1,526	3,849	6,220	993	1,453	4,376
New, total.....do....	3,829	2,049	1,360	2,654	5,788	886	1,414	4,276
New structures and additions to plant.....do....	730	736	( <sup>3</sup> )	1,306	1,806	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	3,099	1,313	865	1,348	3,982	549	1,157	3,786
Used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,195	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. Revised.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry, "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Less than \$500 thousand.



Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
3951	Pens and mechanical pencils:											
	Number of establishments.....	147	38	19	24	20	23	15	4	1	3	...
	All employees:											
	Number.....	11,179	63	124	320	622	1,583	2,179	2,118	(D)	4,170	...
	Payroll.....\$1,000..	45,856	217	398	1,070	2,028	4,966	7,223	10,529	(D)	19,425	...
	Value added, adjusted..do....	90,197	545	1,359	2,462	3,558	9,810	12,031	18,868	(D)	41,564	...
	Value of shipments.....do....	150,279	1,465	4,730	5,224	7,603	21,742	25,702	30,286	(D)	53,527	...
	Capital expend., new...do....	3,829	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	649	511	763	(D)	1,634	...
3952	Lead pencils and art goods:											
	Number of establishments.....	146	57	19	16	23	12	12	6	1	...	...
	All employees:											
	Number.....	6,687	118	126	218	715	911	1,742	2,857	(D)	...	...
	Payroll.....\$1,000..	26,183	420	460	694	3,093	3,276	6,300	11,940	(D)	...	...
	Value added, adjusted..do....	47,909	964	814	1,477	6,276	7,557	11,401	19,420	(D)	...	...
	Value of shipments.....do....	98,494	1,899	2,058	3,057	12,458	14,688	25,875	38,459	(D)	...	...
	Capital expend., new...do....	2,049	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,145	(D)	...	...
3953	Marking devices:											
	Number of establishments.....	525	274	105	76	53	12	4	1	...	...	...
	All employees:											
	Number.....	5,447	562	708	985	1,548	790	854	(D)	...	...	...
	Payroll.....\$1,000..	24,775	2,063	2,982	4,463	7,375	3,776	4,116	(D)	...	...	...
	Value added, adjusted..do....	39,940	5,074	5,441	7,328	11,371	5,417	5,309	(D)	...	...	...
	Value of shipments.....do....	59,923	7,398	7,995	10,380	17,570	8,674	7,906	(D)	...	...	...
	Capital expend., new...do....	1,360	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	...	...
3955	Carbon paper and inked ribbons:											
	Number of establishments.....	103	25	10	7	33	12	11	4	1	...	...
	All employees:											
	Number.....	5,818	52	58	90	981	949	1,891	1,797	(D)	...	...
	Payroll.....\$1,000..	27,614	212	259	313	4,704	4,484	8,815	8,827	(D)	...	...
	Value added, adjusted..do....	58,951	669	541	576	8,617	10,355	18,902	19,291	(D)	...	...
	Value of shipments.....do....	126,013	1,413	1,586	1,493	20,300	20,807	40,783	39,631	(D)	...	...
	Capital expend., new...do....	2,654	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,515	(D)	...	...
3961	Costume jewelry:											
	Number of establishments.....	1,051	411	213	172	153	54	35	9	2	2	...
	All employees:											
	Number.....	25,286	790	1,420	2,339	4,909	3,797	4,942	3,642	3,447	(D)	...
	Payroll.....\$1,000..	83,201	2,187	3,608	7,022	15,230	12,448	16,513	12,673	13,520	(D)	...
	Value added, adjusted..do....	138,043	5,976	7,759	12,532	25,531	20,518	26,166	18,278	21,283	(D)	...
	Value of shipments.....do....	253,809	10,312	14,474	26,420	50,143	38,638	49,098	31,287	33,437	(D)	...
	Capital expend., new...do....	5,788	1,858	1,218	( <sup>1</sup> )	827	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...
3962	Artificial flowers:											
	Number of establishments.....	431	160	84	86	76	19	5	1	...	...	...
	All employees:											
	Number.....	6,770	322	569	1,175	2,322	1,278	1,104	(D)	...	...	...
	Payroll.....\$1,000..	19,021	703	1,589	3,177	6,802	3,714	3,036	(D)	...	...	...
	Value added, adjusted..do....	34,650	1,870	2,665	5,960	12,274	6,666	5,215	(D)	...	...	...
	Value of shipments.....do....	64,969	3,493	5,855	10,198	23,164	12,170	10,089	(D)	...	...	...
	Capital expend., new...do....	886	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	...	...
3963	Buttons:											
	Number of establishments.....	356	149	73	47	55	20	11	1	...	...	...
	All employees:											
	Number.....	6,462	315	478	654	1,718	1,359	1,938	(D)	...	...	...
	Payroll.....\$1,000..	21,526	850	1,336	1,840	5,326	4,542	7,632	(D)	...	...	...
	Value added, adjusted..do....	37,967	1,948	2,449	2,853	8,497	9,151	13,069	(D)	...	...	...
	Value of shipments.....do....	68,609	3,440	3,987	5,047	16,773	16,149	23,213	(D)	...	...	...
	Capital expend., new...do....	1,414	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	...	...
3964	Needles, pins, and fasteners:											
	Number of establishments.....	367	101	56	82	67	24	25	4	6	2	...
	All employees:											
	Number.....	17,756	224	388	1,141	2,131	1,734	3,895	1,548	6,695	(D)	...
	Payroll.....\$1,000..	69,873	756	1,182	3,571	7,534	6,880	15,299	5,411	29,240	(D)	...
	Value added, adjusted..do....	127,664	1,557	2,227	6,290	17,518	11,570	32,083	8,843	47,576	(D)	...
	Value of shipments.....do....	220,517	4,336	4,871	14,495	35,672	21,886	55,469	13,802	69,986	(D)	...
	Capital expend., new...do....	4,276	( <sup>1</sup> )	( <sup>1</sup> )	710	( <sup>1</sup> )	( <sup>1</sup> )	1,178	( <sup>1</sup> )	1,300	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3951	Pens and mechanical pencils....1958..	150,279	135,938	10,841	3,500	93	145,840	135,938	9,902	93
	1954..	129,975	112,416	13,633	3,926	89	118,110	112,416	5,694	95
3952	Lead pencils and art goods.....1958..	98,494	82,368	10,855	5,271	88	89,451	82,368	7,083	92
	1954..	84,189	(NA)	(NA)	5,881	(NA)	76,918	(NA)	(NA)	(NA)
3953	Marking devices.....1958..	59,923	50,499	2,027	7,397	96	58,652	50,499	8,153	86
	1954..	54,289	42,554	4,501	7,234	90	47,720	42,554	5,166	89
3955	Carbon paper and inked ribbons.1958..	126,013	106,328	9,958	9,727	91	119,112	106,328	12,784	89
	1954..	85,666	74,982	5,783	4,901	93	90,990	74,982	16,008	83
3961	Costume jewelry.....1958..	253,809	227,970	12,727	13,112	95	236,250	227,970	8,280	96
	1954..	249,560	223,846	11,472	14,242	95	235,232	223,846	11,386	95
3962	Artificial flowers.....1958..	64,969	58,199	1,343	5,427	98	59,494	58,199	1,295	98
	1954..	52,968	47,605	1,469	3,894	97	48,603	47,605	998	98
3963	Buttons.....1958..	68,609	62,131	1,332	5,146	98	70,830	62,131	8,699	88
	1954..	69,117	56,845	5,013	7,259	92	63,983	56,845	7,138	89
3964	Needles, pins, and fasteners...1958..	220,517	197,357	14,919	8,241	93	220,845	197,357	23,488	89
	1954..	206,602	161,546	35,731	9,325	82	176,981	161,546	15,435	91

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Pens and mechanical pencils industry	Pens and mechanical pencils (SIC 3951)	Lead pencils and art goods (SIC 3952)	Other industries	All industries
	Total shipments and receipts of the industry.....	150,279	xxx	xxx	xxx
39510	Pens, mechanical pencils, and pen points.....	135,938	3,600	6,302	145,840
	Secondary products.....	10,841	xxx	xxx	xxx
28095	Essential oils, fireworks, and pyrotechnics.....	2,788	xxx	xxx	xxx
	Other secondary products.....	18,053	xxx	xxx	xxx
	Miscellaneous receipts.....	3,500	xxx	xxx	xxx
	Sales of products bought and resold.....	2,142	xxx	xxx	xxx
	Other.....	1,358	xxx	xxx	xxx
Prod. class code	Lead pencils and art goods industry	Lead pencils and art goods (SIC 3952)	Other industries	All industries	
	Total shipments and receipts of the industry.....	98,494	xxx	xxx	
	Primary products.....	82,368	7,083	89,451	
39521	Lead pencils and crayons.....	61,625	23,692	65,317	
39522	Artists' materials.....	20,743	33,391	24,134	
	Secondary products.....	10,855	xxx	xxx	
39510	Pens, mechanical pencils, and pen points.....	3,600	xxx	xxx	
	Other secondary products.....	7,255	xxx	xxx	
	Miscellaneous receipts.....	5,271	xxx	xxx	
	Sales of products bought and resold.....	5,088	xxx	xxx	
	Other.....	183	xxx	xxx	
Prod. class code	Marking devices industry	Marking devices (SIC 3953)	Other industries	All industries	
	Total shipments and receipts of the industry.....	59,923	xxx	xxx	
39530	Hand stamps, stencils, and other marking devices.....	50,499	8,153	58,652	
	Secondary products.....	2,027	xxx	xxx	
	Miscellaneous receipts.....	7,397	xxx	xxx	
	Contract and commission work.....	555	xxx	xxx	
	Sales of products bought and resold.....	6,071	xxx	xxx	
	Scrap and salable refuse and miscellaneous repair work.....	288	xxx	xxx	
	Other.....	483	xxx	xxx	
Prod. class code	Carbon paper and inked ribbons industry	Carbon paper and inked ribbons (SIC 3955)	Other industries	All industries	
	Total shipments and receipts of the industry.....	126,013	xxx	xxx	
39550	Carbon paper, stencil paper, and inked ribbons.....	106,328	12,784	119,112	
	Secondary products.....	9,958	xxx	xxx	
26495	Other converted paper and board products.....	3,244	xxx	xxx	
	Other secondary products.....	6,714	xxx	xxx	
	Miscellaneous receipts.....	9,727	xxx	xxx	
	Sales of products bought and resold.....	9,564	xxx	xxx	
	Other.....	163	xxx	xxx	
Prod. class code	Costume jewelry industry	Costume jewelry (SIC 3961)	Jewelry, precious metal (SIC 3911)	Other industries	All industries
	Total shipments and receipts of the industry.....	253,809	xxx	xxx	xxx
39610	Costume jewelry and costume novelties, except precious metal.....	227,970	5,897	2,383	236,250
	Secondary products.....	12,727	xxx	xxx	xxx
39112	Jewelry made of precious metal.....	3,930	xxx	xxx	xxx
	Other secondary products.....	8,797	xxx	xxx	xxx
	Miscellaneous receipts.....	13,112	xxx	xxx	xxx
	Contract and commission work.....	3,065	xxx	xxx	xxx
	Sales of products bought and resold.....	9,143	xxx	xxx	xxx
	Scrap and salable refuse.....	668	xxx	xxx	xxx
	Other.....	236	xxx	xxx	xxx

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Prod. class code	Artificial flowers industry	Artificial flowers (SIC 3962)	Other industries	All industries
	Total shipments and receipts of the industry.....	64,969	xxx	xxx
39620	Feathers, plumes, and artificial flowers.....	58,199	1,295	59,494
	Secondary products.....	1,343	xxx	xxx
	Miscellaneous receipts.....	5,427	xxx	xxx
	Contract and commission work.....	785	xxx	xxx
	Sales of products bought and resold.....	4,595	xxx	xxx
	Other.....	51	xxx	xxx
Prod. class code	Buttons industry	Buttons (SIC 3963)	Other industries	All industries
	Total shipments and receipts of the industry.....	68,609	xxx	xxx
39630	Buttons and parts, except of precious or semiprecious metals and stones.....	62,131	58,699	70,830
	Secondary products.....	1,332	xxx	xxx
	Miscellaneous receipts.....	5,146	xxx	xxx
	Contract and commission work.....	2,071	xxx	xxx
	Sales of products bought and resold.....	2,824	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	251	xxx	xxx
Prod. class code	Needles, pins, and fasteners industry	Needles, pins, and fasteners (SIC 3964)	Other industries	All industries
	Total shipments and receipts of the industry.....	220,517	xxx	xxx
	Primary products.....	197,357	23,488	220,845
39641	Zipper, and slide fasteners.....	(D)	(D)	87,251
39642	Needles, pins, fasteners (except slide) and similar notions.....	89,260	<sup>a</sup> 22,777	112,037
39640	Needles, pins, and fasteners, nsk.....	(D)	(D)	21,557
	Secondary products.....	14,919	xxx	xxx
3429	Hardware, nec.....	3,996	xxx	xxx
39630	Buttons and parts.....	2,044	xxx	xxx
	Other secondary products.....	78,879	xxx	xxx
	Miscellaneous receipts.....	8,241	xxx	xxx
	Contract and commission work.....	1,299	xxx	xxx
	Sales of products bought and resold.....	6,031	xxx	xxx
	Scrap and salable refuse.....	805	xxx	xxx
	Other.....	106	xxx	xxx

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Includes Product Class 34510, Screw-machine products, which totaled \$2 million or more but is withheld to avoid disclosing individual company figures.<sup>2</sup>Includes Industry 3941, Games and Toys, NEC, which had shipments of \$2 million or more but is withheld to avoid disclosing individual company figures.<sup>3</sup>Includes Industry 3981, Brooms and Brushes, which had shipments of \$2 million or more but is withheld to avoid disclosing individual company figures.<sup>4</sup>Includes the following industries which had shipments that totaled \$2 million or more but are withheld to avoid disclosing individual company figures -- Industry 3571, Computing and Related Machines; Industry 3579, Office Machines, NEC.<sup>5</sup>Includes \$2,044 thousand shipped by Industry 3964, Needles, Pins, and Fasteners.<sup>6</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3452, Bolts, Nuts, Screws, Rivets, and Washers; Industry 3461, Metal Stampings; Industry 3636, Sewing Machines.<sup>7</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing company figures -- product class 34295, Other hardware; Product class 34618, Other stamped and pressed metal end products.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3951---	Pens, mechanical pencils, and pen points, total.....	.....	xxx	145,840	xxx	118,110
	Pens:					
	Fountain pens, complete (all types, except ball-point):					
3951011	\$1.00 each and under (retail price).....	1,000 units.	13,377	3,878	17,024	4,915
3951019	\$1.01 to \$5.00 each (retail price).....	..do.....	11,611	27,603	6,271	7,688
3951016	Over \$5.00 each (retail price).....	..do.....			5,959	30,053
	Ball-point type pens, complete:					
3951011	\$.50 each and under (retail price).....	..do.....	297,998	31,478	82,095	9,852
3951018	Over \$.50 each (retail price).....	..do.....	42,708	24,258	46,685	24,308
3951019	Desk pen sets, including fountain-pen type, ball point type, and ink well reservoir (dip) type.....	..do.....	2,756	4,603	1,682	4,281
	Mechanical pencils.....	..do.....	54,487	15,114	52,497	19,027
3951061	\$.50 each and under (retail price).....	..do.....	38,823	5,813	33,489	4,416
3951065	Over \$.50 each (retail price).....	..do.....	15,664	9,301	19,008	14,611
3951063	Miscellaneous pen and mechanical pencil parts, for sale separately, such as penholders, pen points (all types), renewal parts, etc.....	.....	xxx	16,321	xxx	17,986
3951071	Refill ink cartridges for ball point pens.....	.....	xxx	15,551	xxx	xxx
3951080	Pens and mechanical pencils, nsk.....	.....	xxx	7,034	...	...
3952---	Lead pencils, crayons, and artists' materials, total.....	.....	xxx	89,451	xxx	76,918
39521--	Lead pencils and crayons:					
	Pencils, nonmechanical:					
3952111	Black lead.....	1,000 gross.	8,810	27,710	10,404	25,186
3952115	Other (indelible colored, etc.).....	..do.....	2,407	11,902	1,090	5,921
3952123	Pencil leads (including refill leads for mechanical pencils) and non-mechanical pencil parts for sale separately.....	.....	xxx	10,820	xxx	5,355
3952153	Crayons, including chalk, except artist's and tailors.....	.....	xxx	13,794	xxx	14,524
3952100	Lead pencils and crayons, nsk.....	.....	xxx	1,091	xxx	...
3952211	Artists' materials (including airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and materials).....	.....	xxx	24,134	xxx	25,932
Value of shipments including interplant transfers (\$1,000)						
			1958		1954	
3953---	Hand stamps, stencils, and other marking devices, total.....		58,652		47,720	
3953011	Rubber stamps.....		12,305		9,224	
3953031	Metal stamps, marking dies, and seals (including hand presses for seals and marking dies).....		13,977		12,730	
3953098	Other marking devices, such as stencils, letters, figures and numerals, stamp pads, branding irons, etc.....		17,264		15,639	
3953000	Hand stamps and stencils, nsk.....		15,106		10,127	
		Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3955---	Carbon paper, stencil paper, and inked ribbons, total.....	.....	xxx	119,112	xxx	90,990
	Inked ribbons:					
3955011	Typewriter (all types).....	1,000 dozens	3,040	19,108	2,518	16,608
3955019	Other inked ribbons (all types).....	..do.....	1,656	11,020	xxx	8,138
	Coated carbon paper (in roll and sheet):					
3955031	One-time.....	.....	xxx	22,801	xxx	15,013
3955035	Other than one-time.....	.....	xxx	29,013	xxx	22,854
	Stencil paper:					
3955061	Spirit and gelatin process master copies (including master sets).....	.....	xxx	18,180	xxx	10,833
3955098	All other (including mimeograph stencil paper).....	.....	xxx	14,201	xxx	16,273
3955000	Carbon paper, stencil paper, and inked ribbons, nsk.....	.....	xxx	4,789	xxx	1,271

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)				
		1958		1954		
3961---	Costume jewelry and costume novelties, except precious metal, total.....		236,250		235,232	
	Base metal, whether or not electroplated with gold, silver, chromium, etc.:					
3961011	Rings and ring mountings.....		4,774		2,148	
3961021	Men's jewelry (excluding watch attachments).....		28,434		23,734	
3961031	Women's and children's jewelry and costume novelties (excluding watch attachments).....		99,937		115,158	
3961041	Watch attachments (bracelets for watches).....		8,961		12,929	
3961051	Fraternal, college, and school jewelry and emblems, including military insignia (excluding rings).....		4,130		2,992	
3961061	Religious jewelry, such as rosaries, chaplets, religious medals, crosses, etc.....		4,147		2,484	
3961071	Other jewelry worn or carried about the person (excluding cigar and cigarette cases and lighters, code 39993, compacts, and vanity cases)....		9,202		6,701	
3961081	Imitation pearls (including necklaces).....		13,807		16,848	
3961091	Compacts and vanity cases (including all leather types).....	}				
3961098	Other costume jewelry and costume novelties made of plastics, wood, leather, etc.....		18,736		15,500	
3961000	Costume jewelry, nsk.....		44,122		36,738	
3962011	Feathers, plumes, and artificial flowers.....		59,494		48,603	
		Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3963---	Buttons, total.....		xxx	70,830	xxx	63,983
	Buttons (except buttons of precious metals or precious stones):					
	Metal:					
3963011	Sew-on type.....		(NA)	5,825	(NA)	2,684
3963015	Other metal buttons, including mechanically applied types, etc.....		(NA)	3,272	(NA)	2,384
	Plastic:					
3963021	Casein and casein compound.....		(NA)	4,935	(NA)	4,698
3963023	Thermosetting.....	1,000 gross.	57,061	19,655	46,488	13,929
3963025	Thermoplastic.....		(NA)	6,537	(NA)	3,963
	Pearl or shell:					
3963031	Fresh water.....	1,000 gross.	2,282	3,184	6,444	6,027
3963035	Ocean.....	..do.....	(NA)	4,733	7,320	9,640
3963061	Button blanks or molds, backs and parts for sale as such.....		xxx	8,737	xxx	4,210
3963098	Other buttons (fabric covered, wood, bone and hoof, vegetable, ivory, leather, etc.).....		xxx	4,712	xxx	6,667
3963000	Buttons, nsk.....		xxx	9,240	xxx	9,781
3964---	Needles, pins, and fasteners, total.....		xxx	220,845	xxx	176,981
3964111	Zippers and slide fasteners (each 12 inches is one unit when sold in continuous chain).....	Million units.....	1,473	87,251	1,150	74,421
39642--	Needles, pins, fasteners (except slide) and similar notions:					
	Snap fasteners:					
3964211	Sew on type.....		(NA)	1,023	(NA)	2,538
3964219	Other snap fasteners (such as 4 part riveted, or mechanically applied type, etc.).....		(NA)	18,558	xxx	13,122
3964221	Metal buckles for wearing apparel (including those covered with fabric or other materials, but excluding costume jewelry).....		xxx	13,070	xxx	14,369
3964231	Other fasteners, buckles (except shoe) and apparel trimming (hooks and eyes, rivets and burrs, trimming, plastic buckles, etc.).....		xxx	19,803	xxx	16,523
3964241	Tape (hook and eye and snap) fasteners.....	Gross yards.	187,332	5,586	158,837	5,182
3964251	Hair curlers, except rubber, and except those designed for beauty parlor use.....	..do.....	(NA)	10,368	65,926	5,482
	Needles, except hypodermic, phonograph, and styli:					
	Knitting machine:					
3964261	Latch.....	1,000.....	}	xxx	(2)	112,612
3964263	Spring-beard.....	..do.....				
3964265	Sewing machine (household and industrial dry-thread).....	..do.....	149,673	6,284	193,504	5,638
3964269	Other needles, except phonograph and styli (including shoe machine, hand sewing, hand knitting, crocheting, darning, etc.).....		xxx	210,316	xxx	2,763
	Pins (except jewelry):					
3964281	Common or toilet (including dressmaker's pins).....	1,000 lbs...	2,373	3,702	3,151	4,045
	Hairpins, metal:					
3964283	"Bobby" type.....	..do.....	9,369	12,119	9,355	10,802
3964285	Other types.....		(NA)	617	(NA)	533
3964287	Safety pins.....	1,000 gross.	9,161	2,989	10,154	3,771
3964289	Other pins (hat pins, glass head pins, plastic hairpins, etc.).....		(NA)	7,602	(NA)	2,843
3964000	Needles, pins, fasteners, hooks, and eyes, and similar notions, nsk.....		xxx	21,557	xxx	8,703

NA Not available.

<sup>1</sup>Includes an undetermined amount of ink and cartridges.<sup>2</sup>Latch and spring-beard knitting machine needles are included with "other needles."



Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States  
for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Lead pencils and crayons</u> (3951):		<u>Lead pencils and crayons</u> (3951)--Continued	1958 <sup>1</sup>	<u>Needles, pins, and</u> <u>fasteners (39642):</u>	1958 <sup>1</sup>
United States, total:				United States, total.....	112,037
1958.....	65,317	North Central.....	8,801	New England.....	60,721
1957.....	54,744			Massachusetts.....	11,381
1956.....	55,244	South and West.....	22,713	Rhode Island.....	6,204
1955.....	52,803			Connecticut.....	42,267
1954.....	50,986	Tennessee.....	17,454		
1953.....	53,755			Middle Atlantic.....	30,726
1952.....	50,098	<u>Zipper and slide</u> <u>fasteners (39641):</u>		New York.....	17,840
1951.....	53,138	United States, total.....	87,251	New Jersey.....	8,090
1947.....	45,492	Northeast.....	62,478	Pennsylvania.....	4,796
	1958 <sup>1</sup>	New York.....	30,459	All other regions.....	20,590
New England.....	11,032	South.....	18,241	Illinois.....	10,001
Middle Atlantic.....	22,771				
New York.....	3,944				
New Jersey.....	6,954				
Pennsylvania.....	11,873				

Note: The figures shown for 1951-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 39521, Rhode Island, Connecticut, Ohio, Missouri, Kansas, Virginia, Georgia, and California; 39641, Rhode Island, New Jersey, Pennsylvania, Michigan, Virginia, North Carolina, Georgia, and Mississippi; 39642, Wisconsin, Nebraska, and California.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	1958		1954	
		Quantity (1,000 lbs.)	Delivered cost (\$1,000)	Quantity (1,000 lbs.)	Delivered cost (\$1,000)
	INDUSTRY 3964—NEEDLES, PINS AND FASTENERS				
	Materials, parts, containers and supplies, total.....	xxx	84,503	xxx	77,096
335119	Copper and copper-base alloy mill shapes and forms except castings....	27,829	14,095	28,696	12,631
970099	All other materials and components, parts, containers, and supplies consumed.....	xxx	54,728	xxx	64,465
973000	Materials, nsk.....	xxx	<sup>1</sup> 15,680	xxx	xxx

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for these establishments which failed to report costs of individual materials on "standard forms."

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expend- itures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3952	LEAD PENCILS AND ART GOODS (Entire industry.....)	146	6,687	26,183	4,711	9,366	14,746	47,909	49,098	98,494	2,049
	Establishments with:										
	90% or more specialization.....	126	4,812	18,237	3,422	6,712	10,687	33,373	32,677	67,817	1,462
	75-89% specialization.....	6	956	3,980	674	1,406	2,041	6,436	5,705	12,230	( <sup>1</sup> )
39521	Lead pencils and crayons (primary product class of estab.).....	52	4,887	19,395	3,373	6,764	10,646	35,969	35,726	73,396	1,685
	Establishments with:										
	90% or more specialization....	38	3,105	11,862	2,121	4,316	6,641	20,238	19,881	41,742	686
39522	Artists' materials (primary product class of estab.).....	92	1,689	6,417	1,236	2,407	3,774	11,868	12,191	24,023	( <sup>1</sup> )
	90% or more specialization.....	83	1,077	4,050	777	1,460	2,396	7,308	8,251	15,529	( <sup>1</sup> )
3964	NEEDLES, PINS, AND FASTENERS (Entire industry).....	367	17,756	69,873	14,251	26,723	47,957	127,664	93,645	220,517	4,276
	Establishments with:										
	90% or more specialization.....	327	13,448	51,240	10,848	20,379	35,554	98,381	76,814	174,234	3,460
	75-89% specialization.....	9	1,169	4,057	1,031	1,953	2,920	7,163	3,447	10,329	( <sup>1</sup> )
39641	Zipper and slide fasteners (primary product class of estab.).....	64	6,424	25,433	5,005	9,531	16,554	48,627	43,739	92,181	1,350
39642	Needles, pins, fasteners (except slide) and similar notions (primary product class of estab.).....	94	9,681	39,356	7,864	14,793	27,170	68,966	38,774	107,219	2,091
	Establishments with:										
	90% or more specialization.....	64	5,666	22,650	4,643	8,817	15,900	41,973	22,325	63,662	1,218
	75-89% specialization.....	12	1,568	5,734	1,309	2,454	3,801	9,939	5,492	15,177	( <sup>1</sup> )

<sup>1</sup>Less than \$500 thousand.



## Miscellaneous Manufacturing Industries—Part I

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

### S.I.C. Code and Title (1957 Edition)

- 3981—Brooms and Brushes
- 3982—Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, N.E.C.
- 3983—Matches
- 3984—Candles
- 3987—Lamp Shades
- 3988—Morticians' Goods

### 3981—Brooms and Brushes

This industry comprises establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes such as paint brushes, toothbrushes, toilet brushes, and household and industrial brushes. For a detailed list of products of Industry 3981, refer to table 6A, product codes 3981113 to 3981398.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Brooms and brushes industry in 1958 totaled \$276 million. This included shipments of brooms and brushes (primary products), valued at \$196 million, shipments of other products (secondary products) valued at \$24 million, and miscellaneous receipts of \$55 million.

This industry's shipments of brooms and brushes (primary products) in 1958 represented 89 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 91 percent. Secondary products shipped by this industry in 1958 consisted mainly of housefurnishings (\$7 million).

Industry 3981 shipments of brooms and brushes (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$208 million shipped by all industries. In 1954, the coverage ratio was 92 percent.

### 3982—Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, N.E.C.

This industry comprises establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard surface floor coverings, n.e.c. Establishments primarily engaged in manufacturing rubber floor coverings are classified in Industry 3069, and cork floor and wall tile in Industry 2499. Also excluded an establishment primarily engaged in manufacturing unsupported plastic floor coverings (Industry 3079), and asphalt tile and vinyl asbestos floor tile (Industry 3292). For a detailed list of products of Industry 3982, refer to table 6A, product codes 3982111 to 3982291.

Both the code number and content for this industry were changed in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system. Establishments primarily engaged in manu-

facturing cork floor and wall tile, previously classified in this industry are now classified in Industry 2499, Wood Products, N.E.C.

Value of shipments and other receipts of the Hard Surface Floor Coverings Industry in 1958 totaled \$182 million. This included shipments of hard surface floor coverings (primary products), valued at \$150 million, shipments of other products (secondary products), valued at \$29 million, and miscellaneous receipts of \$3 million.

This industry's shipments of hard surface floor coverings (primary products) in 1958 represented 84 percent (specialization ratio) of its total product shipments (primary and secondary). This ratio in 1954 was 85 percent.

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 57 percent of the total industry shipments are represented by plants specializing in linoleum, and 40 percent in asphalted-felt-base and supported plastic floor coverings.

Industry 3982 shipments of hard surface floor coverings (primary products) in 1958 represented 98 percent (coverage ratio) of these products valued at \$152 million shipped by all industries. In 1954, the coverage ratio was 97 percent.

### 3983—Matches

This industry comprises establishments primarily engaged in manufacturing matches, regardless of the material used. For a detailed list of products of Industry 3983, refer to table 6A, product codes 3983012 to 3983061.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

The value of shipments of Industry 3983, Matches, in 1958 totaled \$67 million. As in 1954, this consisted almost entirely of primary products (matches). Furthermore in 1958 as in 1954, this industry accounted for approximately all of the matches produced in manufacturing industries.

### 3984—Candles

This industry comprises establishments primarily engaged in manufacturing candles from fatty acids, or from mineral and animal waxes. For a detailed list of products of Industry 3984, refer to table 6A, product code 398401.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Candles Industry in 1958 totaled \$34 million. This included shipments of candles (primary products), valued at \$30 million, and shipments of other products (secondary products) and miscellaneous receipts of \$3 million.



This industry's shipments of candles (primary products) in 1958 represented 94 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 87 percent.

Industry 3984 shipments of candles (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$32 million shipped by all industries. In 1954, the coverage ratio was 93 percent.

#### 3987-Lamp Shades

This industry comprises establishments primarily engaged in manufacturing lamp shades of all materials except glass (Industry 3229), and metal (Industry 3642). For a detailed list of products of Industry 3987, refer to table 6A, product code 3987011.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Lamp shades industry in 1958 totaled \$34 million. This included shipments of lamp shades (primary products), valued at \$33 million, and shipments of other products (secondary products) and miscellaneous receipts of \$1 million.

This industry's shipments of lamp shades (primary products) in 1958 represented 97 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent.

Industry 3987 shipments of lamp shades (primary products) in 1958 represented 97 percent (coverage ratio) of these products valued at \$34 million shipped by all industries. In 1954, the coverage ratio was 96 percent.

#### 3988-Morticians' Goods

This industry comprises establishments primarily engaged in manufacturing caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material, except concrete (Industry 3272); morticians' supplies and accessories, such as burial garments, gloves, slippers, casket linings, and embalming fluids; and morticians' paraphernalia and equipment. For a detailed list of products of Industry 3988, refer to table 6A, product codes 3988111 to 3988398.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Morticians' goods industry in 1958 totaled \$238 million. This included shipments of morticians' goods (primary products), valued at \$215 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts of \$11 million.

This industry's shipments of morticians' goods (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 97 percent.

Where the primary products of the industry represent more than one product class, the establishments tend to group themselves into subindustries represented by each of the product classes. The extent of this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in metal caskets and coffins, and 31 percent in wood caskets and coffins.

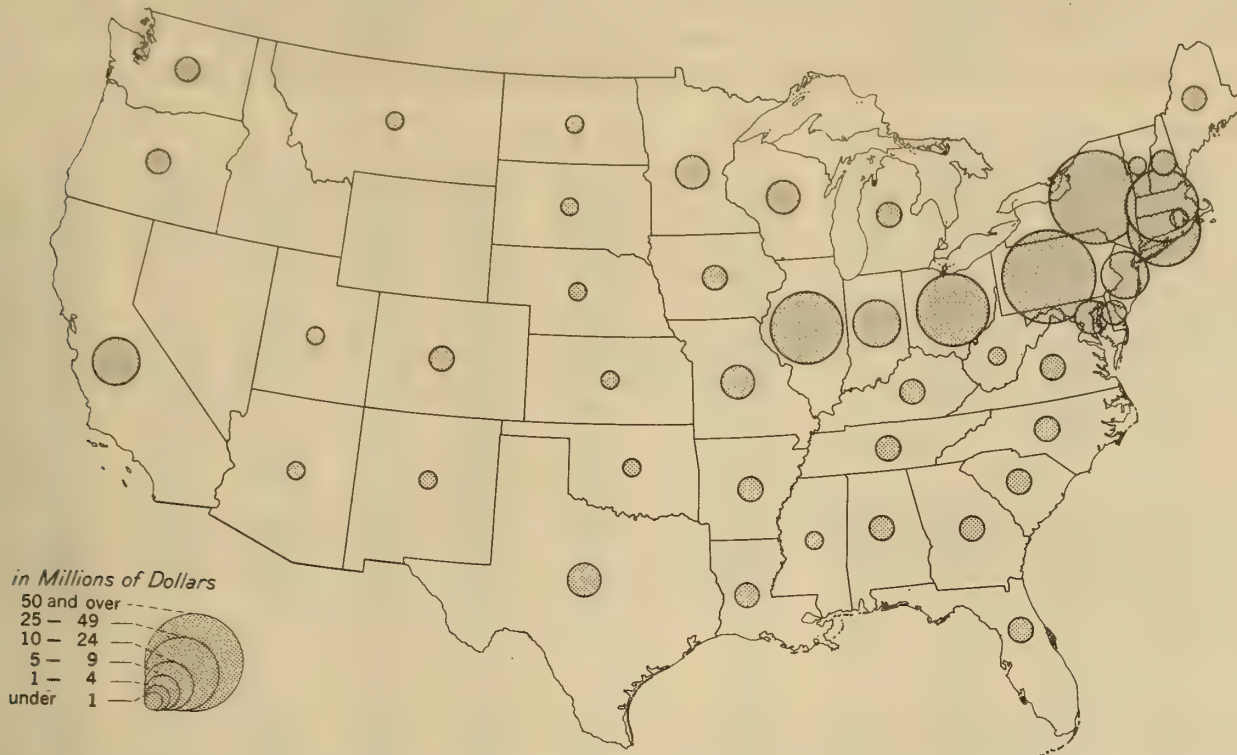
Industry 3988 shipments of morticians' goods (primary products) in 1958 represented 99 percent (coverage ratio) of these products valued at \$218 million shipped by all industries. In 1954, the coverage ratio was 97 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



# MISCELLANEOUS MANUFACTURING INDUSTRIES: SIC 398

Value Added by Manufacture by State: 1958



Includes Industries 3981, 3982, 3983, 3984, 3987 and 3988. See Table 2.

Bureau of the Census M-58-D398

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States, 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3981 (old SIC 3981)	Brooms and brushes:														
	1958.....	713	723	179	17,082	64,573	13,557	25,601	42,917	137,496	137,073	275,722	3,981	89	94
	1954.....	688	698	177	16,826	54,789	13,534	25,595	36,294	102,948	124,013	227,162	3,074	91	92
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,315	54,890	13,004	25,166	35,428	94,387	92,943	187,330	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,915	58,166	14,275	27,182	38,296	102,763	106,794	209,557	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	18,244	59,016	14,729	28,602	37,918	110,030	110,412	220,442	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,383	50,299	14,371	27,247	33,419	95,853	103,559	199,412	(NA)	(NA)	(NA)
	1947.....	698	706	(NA)	18,551	44,875	15,543	30,617	31,162	87,288	92,523	179,811	(NA)	94	97
	1939.....	(NA)	565	(NA)	14,406	16,151	11,678	(NA)	10,746	29,002	31,307	60,309	(NA)	(NA)	(NA)
	1937.....	(NA)	532	(NA)	13,544	13,446	11,982	(NA)	10,155	25,753	30,411	56,164	(NA)	(NA)	(NA)
	1935.....	(NA)	598	(NA)	12,745	12,947	10,976	(NA)	9,079	30,058	26,372	56,430	(NA)	(NA)	(NA)
	1933.....	(NA)	481	(NA)	10,660	8,631	9,566	(NA)	6,932	16,848	16,801	33,649	(NA)	(NA)	(NA)
	1931.....	(NA)	598	(NA)	(NA)	(NA)	9,977	(NA)	9,318	23,470	20,492	43,962	(NA)	(NA)	(NA)
	1929.....	(NA)	710	(NA)	13,775	17,469	11,803	(NA)	12,132	33,380	31,336	64,716	(NA)	(NA)	(NA)
	1927.....	(NA)	696	(NA)	14,257	17,428	12,123	(NA)	12,519	34,560	31,729	66,289	(NA)	(NA)	(NA)
	1925.....	(NA)	723	(NA)	14,974	18,155	12,561	(NA)	13,106	34,303	33,235	67,538	(NA)	(NA)	(NA)
	1923.....	(NA)	750	(NA)	15,991	18,727	13,449	(NA)	13,690	36,271	40,502	76,773	(NA)	(NA)	(NA)
	1921.....	(NA)	736	(NA)	12,785	14,311	10,762	(NA)	10,287	24,651	29,082	53,733	(NA)	(NA)	(NA)
	1919.....	(NA)	1,413	(NA)	16,985	18,417	14,281	(NA)	12,822	32,248	36,963	69,211	(NA)	(NA)	(NA)
	1914.....	(NA)	1,227	(NA)	14,780	8,386	12,855	(NA)	6,085	14,769	17,210	31,979	(NA)	(NA)	(NA)
	1909.....	(NA)	1,282	(NA)	13,692	7,065	12,153	(NA)	5,404	13,548	15,578	29,126	(NA)	(NA)	(NA)
	1904.....	(NA)	1,316	(NA)	12,407	5,305	11,425	(NA)	4,380	10,105	10,999	21,104	(NA)	(NA)	(NA)
	1899.....	(NA)	1,523	(NA)	11,246	4,545	10,346	(NA)	3,788	8,940	9,544	18,484	(NA)	(NA)	(NA)
3982 (old SIC 2274)	Hard surface floor coverings:														
	1958.....	10	14	14	7,999	41,924	6,722	14,034	34,113	93,145	87,138	181,584	5,185	84	98
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	8,736	43,386	7,433	14,939	35,254	97,035	77,487	176,100	12,034	81	97
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,378	45,831	8,079	16,804	37,716	105,217	86,315	190,205	6,635	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	9,991	47,543	8,661	18,420	39,637	111,576	93,971	203,510	6,294	(NA)	(NA)
	1954.....	10	16	16	9,638	43,596	8,242	17,382	35,918	103,265	79,298	187,304	6,352	85	97
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,374	43,938	9,064	18,798	37,701	95,529	91,717	187,246	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	10,834	45,463	9,616	20,557	39,290	90,342	100,332	189,461	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,272	43,872	9,980	21,604	37,751	78,877	102,142	179,806	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,761	42,715	10,530	22,706	36,866	99,308	98,142	196,237	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,327	40,617	10,227	22,016	35,329	80,591	94,037	173,695	(NA)	(NA)	(NA)
	1947.....	14	18	18	9,928	31,571	8,764	20,267	26,796	82,548	92,788	173,255	(NA)	91	100
	1939.....	(NA)	17	(NA)	8,301	13,505	7,028	(NA)	10,406	41,506	28,369	69,875	(NA)	(NA)	(NA)
	1937.....	(NA)	16	(NA)	8,833	13,051	8,107	(NA)	11,378	36,276	32,908	69,184	(NA)	(NA)	(NA)
	1935.....	(NA)	16	(NA)	6,895	9,350	6,410	(NA)	8,105	28,456	23,942	52,398	(NA)	(NA)	(NA)
	1933.....	(NA)	18	(NA)	5,494	6,220	5,092	(NA)	5,347	25,492	16,320	41,812	(NA)	(NA)	(NA)
	1931.....	(NA)	21	(NA)	(NA)	(NA)	4,841	(NA)	6,329	25,960	10,117	42,977	(NA)	(NA)	(NA)
	1929.....	(NA)	21	(NA)	9,647	15,656	7,889	(NA)	12,061	47,371	41,768	89,139	(NA)	(NA)	(NA)
	1927.....	(NA)	19	(NA)	8,980	14,443	7,806	(NA)	11,871	41,141	40,402	81,543	(NA)	(NA)	(NA)
	1925.....	(NA)	17	(NA)	8,153	11,655	7,336	(NA)	9,730	42,635	34,897	77,532	(NA)	(NA)	(NA)
	1923.....	(NA)	16	(NA)	9,331	13,787	7,943	(NA)	10,579	41,390	36,417	77,807	(NA)	(NA)	(NA)
	1921.....	(NA)	19	(NA)	6,697	10,867	5,693	(NA)	7,208	22,987	25,635	48,622	(NA)	(NA)	(NA)
	1919.....	(NA)	21	(NA)	6,251	8,298	5,414	(NA)	6,518	22,304	30,369	52,673	(NA)	(NA)	(NA)
	1914.....	(NA)	18	(NA)	4,795	3,205	4,428	(NA)	2,604	6,350	11,252	17,602	(NA)	(NA)	(NA)
	1909.....	(NA)	19	(NA)	4,462	2,750	4,225	(NA)	2,309	5,668	10,145	15,813	(NA)	(NA)	(NA)
	1904.....	(NA)	16	(NA)	3,538	2,020	3,355	(NA)	1,720	3,609	6,779	10,388	(NA)	(NA)	(NA)
	1899.....	(NA)	18	(NA)	2,823	1,521	2,718	(NA)	1,327	2,954	4,853	7,807	(NA)	(NA)	(NA)
3983 (old SIC 3983)	Matches:														
	1958.....	18	23	20	5,127	21,097	4,350	8,505	16,400	41,776	26,332	67,018	942	(D)	(D)
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,318	21,450	4,522	9,250	16,567	36,602	25,674	65,534	1,162	100	98
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,994	23,225	5,053	10,248	17,661	37,116	27,917	64,662	1,451	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	6,360	22,979	5,433	10,806	17,799	37,756	27,005	63,865	(S)	(NA)	(NA)
	1954.....	14	20	20	6,191	21,308	5,147	10,290	15,945	35,561	25,343	60,765	846	100	98
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,792	18,125	4,993	10,241	14,554	29,310	23,606	52,916	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	5,986	19,947	4,882	10,209	15,237	38,534	28,773	67,307	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,217	20,388	6,158	12,096	16,098	34,203	32,108	66,311	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	7,246	20,098	6,159	12,496	15,777	38,338	27,462	65,800	(NA)	(NA)	(NA)
	1947.....	18	29	(NA)	7,350	16,422	6,612	13,724	13,406	31,302	25,355	56,657	(NA)	100	100

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization, ratio <sup>6</sup>	Coverage ratio <sup>7</sup>
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3983	Matches—Continued														
	1939.....	(NA)	28	(NA)	5,940	6,708	5,426	(NA)	5,598	11,479	14,098	25,577	(NA)	(NA)	(NA)
	1937.....	(NA)	25	(NA)	5,693	6,268	5,261	(NA)	5,392	10,688	12,214	20,902	(NA)	(NA)	(NA)
	1935.....	(NA)	24	(NA)	5,495	5,492	5,075	(NA)	4,693	11,401	19,039	30,440	(NA)	(NA)	(NA)
	1933.....	(NA)	18	(NA)	4,987	4,510	4,726	(NA)	4,037	14,694	11,679	26,373	(NA)	(NA)	(NA)
	1931.....	(NA)	19	(NA)	(NA)	(NA)	3,369	(NA)	3,493	7,598	10,875	18,473	(NA)	(NA)	(NA)
	1929.....	(NA)	21	(NA)	4,121	4,920	3,760	(NA)	4,118	7,825	12,526	20,351	(NA)	(NA)	(NA)
	1927.....	(NA)	19	(NA)	4,181	4,688	3,905	(NA)	4,131	13,022	11,884	24,906	(NA)	(NA)	(NA)
	1925.....	(NA)	25	(NA)	4,939	5,406	4,627	(NA)	4,707	10,828	12,913	23,741	(NA)	(NA)	(NA)
	1923.....	(NA)	22	(NA)	5,173	5,409	4,712	(NA)	4,425	12,154	11,786	23,940	(NA)	(NA)	(NA)
	1921.....	(NA)	22	(NA)	5,802	6,233	4,539	(NA)	4,280	17,034	13,240	30,274	(NA)	(NA)	(NA)
	1919.....	(NA)	21	(NA)	5,123	4,866	3,726	(NA)	3,060	11,643	6,853	18,496	(NA)	(NA)	(NA)
	1914.....	(NA)	20	(NA)	4,542	2,811	3,800	(NA)	1,758	7,354	5,202	12,556	(NA)	(NA)	(NA)
	1909.....	(NA)	26	(NA)	4,174	2,113	3,631	(NA)	1,390	6,754	4,599	11,353	(NA)	(NA)	(NA)
	1904.....	(NA)	23	(NA)	3,361	1,279	3,185	(NA)	1,101	2,362	3,285	5,647	(NA)	(NA)	(NA)
	1899.....	(NA)	22	(NA)	2,113	700	2,047	(NA)	613	2,585	3,421	6,006	(NA)	(NA)	(NA)
3984 (old SIC 3984)	Candles:														
	1958.....	85	86	25	2,516	9,268	1,877	3,572	5,411	17,668	15,683	33,802	(10)	94	95
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	2,987	10,076	2,252	4,798	6,400	18,557	14,390	32,388	(S)	(NA)	(NA)
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	3,079	9,920	2,356	4,854	6,329	17,516	14,140	31,103	694	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	2,986	9,555	2,284	4,690	6,093	16,320	13,594	29,547	(S)	(NA)	(NA)
	1954.....	88	89	23	3,010	9,420	2,289	4,716	6,112	17,012	13,577	30,437	822	87	93
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	1,988	6,062	1,525	3,015	3,542	10,367	9,797	20,164	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	2,127	5,648	1,602	3,313	3,400	9,681	8,027	17,708	(NA)	(NA)	(NA)
	1949 <sup>8</sup> .....	(NA)	(NA)	(NA)	2,075	5,258	1,568	3,179	2,970	8,984	7,600	16,584	(NA)	(NA)	(NA)
	1947.....	54	54	(NA)	2,405	5,596	1,933	3,972	3,704	8,911	8,995	17,906	(NA)	91	87
	1939.....	(NA)	28	(NA)	1,188	1,752	840	(NA)	817	2,991	3,338	6,329	(NA)	(NA)	(NA)
	1937.....	(NA)	22	(NA)	903	1,134	725	(NA)	686	2,728	2,624	5,352	(NA)	(NA)	(NA)
	1935.....	(NA)	23	(NA)	900	1,076	713	(NA)	599	2,334	2,400	4,734	(NA)	(NA)	(NA)
	1933.....	(NA)	19	(NA)	811	746	673	(NA)	561	2,284	1,844	4,128	(NA)	(NA)	(NA)
	1931.....	(NA)	23	(NA)	(NA)	(NA)	713	(NA)	711	2,915	2,481	5,396	(NA)	(NA)	(NA)
	1929.....	(NA)	20	(NA)	937	1,425	781	(NA)	923	3,435	3,251	6,686	(NA)	(NA)	(NA)
	1927.....	(NA)	17	(NA)	921	1,404	709	(NA)	761	3,392	2,959	6,351	(NA)	(NA)	(NA)
	1925.....	(NA)	20	(NA)	827	1,207	626	(NA)	673	2,328	2,786	5,114	(NA)	(NA)	(NA)
	1923.....	(NA)	21	(NA)	889	1,081	746	(NA)	754	2,687	2,393	5,080	(NA)	(NA)	(NA)
	1921.....	(NA)	20	(NA)	707	848	609	(NA)	590	1,686	2,091	3,777	(NA)	(NA)	(NA)
	1919.....	(NA)	19	(NA)	653	725	541	(NA)	438	1,172	2,179	3,351	(NA)	(NA)	(NA)
	1914.....	(NA)	15	(NA)	478	356	387	(NA)	183	612	1,119	1,731	(NA)	(NA)	(NA)
	1909.....	(NA)	16	(NA)	642	408	539	(NA)	246	955	2,176	3,131	(NA)	(NA)	(NA)
	1904.....	(NA)	17	(NA)	905	428	816	(NA)	294	978	2,911	3,889	(NA)	(NA)	(NA)
3987 (old SIC 3987)	Lamp shades:														
	1958.....	268	270	50	3,895	11,401	3,434	6,439	9,185	18,577	15,282	34,066	1,237	97	97
	1954.....	323	325	69	5,025	12,542	4,524	8,394	9,957	21,643	17,486	39,137	(10)	93	96
	1947.....	291	291	(NA)	4,488	8,473	4,100	8,275	7,043	14,668	12,831	27,499	(NA)	93	93
	1939.....	(NA)	128	(NA)	3,105	2,474	2,671	(NA)	1,715	3,991	4,385	8,376	(NA)	(NA)	(NA)
	1937 <sup>11</sup> .....	(NA)	121	(NA)	(NA)	(NA)	2,819	(NA)	1,821	4,050	4,192	8,242	(NA)	(NA)	(NA)
3988 (old SIC 3988)	Morticians' goods:														
	1958.....	562	592	219	17,362	73,736	13,805	27,760	50,604	128,879	109,907	237,773	5,754	95	99
	1957 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,129	67,408	13,596	28,105	47,284	121,817	95,924	217,447	3,582	94	98
	1956 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,754	63,955	13,224	26,434	44,110	112,311	86,291	197,171	2,859	(NA)	(NA)
	1955 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,091	58,551	12,765	24,912	39,891	102,183	74,143	176,299	2,144	(NA)	(NA)
	1954.....	541	563	217	16,729	59,233	13,302	26,499	40,001	95,369	82,226	177,287	2,846	97	97
	1953 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,702	61,159	14,550	29,670	43,470	101,713	81,177	182,890	(NA)	(NA)	(NA)
	1952 <sup>8</sup> .....	(NA)	(NA)	(NA)	16,481	51,580	13,468	25,965	37,060	83,894	87,574	171,468	(NA)	(NA)	(NA)
	1951 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,252	55,517	14,007	29,317	39,148	91,544	103,124	194,668	(NA)	(NA)	(NA)
	1950 <sup>8</sup> .....	(NA)	(NA)	(NA)	17,053	49,152	14,088	28,689	34,853	74,943	88,597	163,540	(NA)	(NA)	(NA)
	1947.....	525	568	(NA)	22,375	60,002	18,242	38,987	42,388	92,395	96,434	188,829	(NA)	90	97
	1939.....	(NA)	599	(NA)	16,615	23,007	12,447	(NA)	13,392	38,491	31,862	70,353	(NA)	(NA)	(NA)
	1937.....	(NA)	521	(NA)	16,093	20,949	13,678	(NA)	15,120	38,129	33,628	71,757	(NA)	(NA)	(NA)
	1935.....	(NA)	548	(NA)	16,126	19,534	13,779	(NA)	13,817	36,174	29,479	65,653	(NA)	(NA)	(NA)
	1933.....	(NA)	396	(NA)	13,857	14,948	12,155	(NA)	11,837	33,066	25,674	58,740	(NA)	(NA)	(NA)
	1931.....	(NA)	399	(NA)	(NA)	(NA)	11,932	(NA)	14,225	41,291	28,519	69,810	(NA)	(NA)	(NA)
	1929.....	(NA)	414	(NA)	15,206	22,887	13,033	(NA)	16,411	48,932	39,350	88,282	(NA)	(NA)	(NA)
	1927.....	(NA)	340	(NA)	13,709	20,070	11,665	(NA)	14,421	41,564	33,327	74,891	(NA)	(NA)	(NA)
	1925 <sup>12</sup> .....	(NA)	326	(NA)	13,385	19,052	11,479	(NA)	14,057	37,642	32,771	70,413	(NA)	(NA)	(NA)
	1923.....	(NA)	327	(NA)	13,732	18,576	11,593	(NA)	13,334	34,017	31,541	65,558	(NA)	(NA)	(NA)

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacturing, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3988	Morticians' goods—Continued														
	1921.....	(NA)	314	(NA)	11,799	15,066	9,956	(NA)	10,586	27,779	27,017	54,796	(NA)	(NA)	(NA)
	1919.....	(NA)	351	(NA)	14,321	17,282	11,890	(NA)	11,451	32,782	31,595	64,377	(NA)	(NA)	(NA)
	1914.....	(NA)	287	(NA)	11,332	7,894	9,468	(NA)	5,382	13,068	13,257	26,325	(NA)	(NA)	(NA)
	1909.....	(NA)	284	(NA)	11,287	7,044	9,339	(NA)	4,633	12,562	11,964	24,526	(NA)	(NA)	(NA)
	1904.....	(NA)	239	(NA)	9,629	5,465	8,468	(NA)	4,120	10,765	9,501	20,266	(NA)	(NA)	(NA)
	1899.....	(NA)	217	(NA)	7,788	4,101	6,840	(NA)	3,077	7,007	6,945	13,952	(NA)	(NA)	(NA)

D Withheld to avoid disclosing figures of individual companies.

NA Not available.

S Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>A company is defined to include all manufacturing establishments owned by the company, plus all manufacturing establishments of subsidiaries or affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3981	91,737	3984	16,486
3982	102,337	3987	21,492
3983	35,391	3988	92,024

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3981	107,238	93,707	3984	14,479	12,801
3982	84,763	79,248	3987	15,133	17,184
3983	25,933	25,241	3988	101,691	74,117

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3981	223,258	185,445	3984	32,268	29,288
3982	178,627	181,582	3987	33,892	38,677
3983	66,602	60,633	3988	226,597	166,141

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.<sup>8</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.<sup>9</sup>Because of the inclusion of excise taxes in both the cost of materials and value of shipments for 1937 and 1935, the statistics for these years are not strictly comparable with the statistics for other years.<sup>10</sup>Less than \$500 thousand.<sup>11</sup>"Lamp shades" was formerly classified in the discontinued industry, "Miscellaneous articles, nec." Figures for years prior to 1937 are, therefore, not available.<sup>12</sup>The figures for 1925 and prior years do not include data for metal burial vaults, whereas the figures for later years include data for this product.



Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958										1954		1947
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3981	Brooms and brushes, total.....	723	179	17,082	64,573	13,557	25,601	42,917	137,496	275,722	3,981	16,826	93,707	18,551
	New England.....	50	20	3,199	13,996	2,482	4,773	9,594	44,565	84,604	824	2,361	14,335	3,302
	Middle Atlantic... New Jersey.....	183	59	5,074	19,211	3,964	7,501	12,303	35,801	74,903	1,098	5,552	32,476	6,391
		27	11	876	3,750	642	1,194	2,281	6,717	13,225	(2)	952	6,081	1,269
	East North Central	143	44	4,109	16,693	3,200	6,249	10,534	31,393	62,780	1,410	4,056	23,881	4,161
	Ohio.....	36	13	1,653	7,631	1,216	2,355	4,383	15,252	28,279	941	1,742	10,527	1,659
	Indiana.....	11	4	256	805	188	341	518	1,723	3,457	(2)	331	2,548	545
	Illinois.....	56	17	1,416	5,305	1,164	2,335	3,654	9,414	19,640	(2)	1,320	6,847	1,505
	West North Central	56	8	933	2,803	767	1,312	1,870	4,399	8,602	(1)	1,163	4,063	1,106
	Minnesota.....	12	3	292	1,363	217	422	825	2,384	4,553	(2)	311	1,725	343
	Iowa.....	13	1	105	336	84	154	236	628	1,121	(2)	(3)	(3)	(3)
	Nebraska.....	8	1	143	362	120	191	258	654	1,174	(2)	279	860	377
	South.....	203	31	2,664	7,918	2,265	4,193	5,957	14,177	30,398	(1)	(3)	(3)	(3)
	Maryland.....	12	7	931	3,586	760	1,550	2,500	6,101	12,943	(2)	1,121	5,329	1,276
	North Carolina..	33	1	231	565	194	340	424	974	2,486	(2)	167	569	174
	Florida.....	13	6	287	677	249	427	505	1,247	2,332	(2)	160	596	67
	Tennessee.....	16	3	161	405	143	252	329	1,217	2,297	(2)	(3)	(3)	(3)
	Alabama.....	r11	r2	r107	r242	r94	r155	r188	r391	r877	r(2)	r(3)	r(3)	r(3)
	Louisiana.....	r16	r2	r117	r289	r98	r169	r211	r1456	r1,152	r(2)	r181	r478	r84
	Texas.....	r43	r3	r317	r843	r270	r515	r700	r1,305	r2,961	r(2)	r316	r1,027	r339
	Mountain.....	13	1	142	450	118	217	324	808	1,435	(2)	151	691	176
	Colorado.....	r5	r1	r114	r371	r93	r173	r252	r635	r1,076	r(2)	r128	r534	r156
	Pacific.....	75	16	961	3,502	761	1,356	2,335	6,353	13,000	(2)	678	4,595	654
	Oregon.....	5	2	120	571	94	158	369	799	1,925	(2)	(3)	(3)	(3)
	California.....	62	12	742	2,620	594	1,067	1,745	5,098	10,264	(2)	529	3,785	459
3982	Hard surface floor coverings, total...	14	14	7,999	41,924	6,722	14,034	34,113	93,145	181,584	5,185	9,638	102,337	9,928
	New England.....	4	4	1,170	5,502	1,013	2,303	4,622	9,930	19,294	524	1,065	10,299	...
	Middle Atlantic...	6	6	6,064	32,232	5,071	10,468	26,166	75,045	145,509	4,448	7,481	79,566	(D)
	North Central, South and West...	4	4	765	4,190	638	1,263	3,325	8,170	16,781	(2)	1,091	12,471	1,421
3983	Matches, total.....	23	20	5,127	21,097	4,350	8,505	16,400	41,776	67,018	942	6,191	35,391	7,350
	Northeast.....	5	5	1,746	7,421	1,452	2,789	5,379	12,483	20,366	(2)	1,792	10,560	2,288
	East North Central	9	7	1,875	8,015	1,555	3,123	6,273	17,338	27,568	544	2,825	15,839	3,372
	West North Central	3	3	888	3,254	802	1,574	2,793	5,644	9,824	(2)	951	5,350	1,020
	South and West....	6	5	618	2,407	541	1,019	1,955	6,311	9,260	(2)	621	3,642	670
3984	Candles, total.....	86	25	2,516	9,268	1,877	3,572	5,411	17,668	33,802	(2)	3,010	16,486	2,405
	New England.....	5	1	118	415	91	170	265	863	1,555	(2)	121	587	94
	Massachusetts...	5	1	118	415	91	170	265	863	1,555	(2)	121	587	(D)
	Middle Atlantic...	42	15	1,658	6,313	1,203	2,339	3,531	11,516	22,077	(2)	2,196	12,280	2,028
	New York.....	32	11	1,321	5,197	925	1,827	2,824	9,529	17,986	(2)	1,844	10,273	1,670
	North Central and South.....	19	4	511	1,782	403	767	1,112	3,860	7,402	(2)	465	2,340	...
	West.....	20	5	229	758	180	296	503	1,429	2,768	(2)	(3)	(3)	283
	California.....	16	5	205	709	160	263	461	1,330	2,592	(2)	(3)	(3)	(3)
3987	Lamp shades, total..	270	50	3,895	11,401	3,434	6,439	9,185	18,577	34,066	1,237	5,025	21,492	4,488
	Northeast.....	184	35	2,710	7,736	2,403	4,514	6,346	12,630	23,440	531	3,522	15,122	2,997
	New York.....	106	12	1,115	3,427	984	1,867	2,835	9,966	17,440	(2)	1,740	7,529	1,463
	Pennsylvania....	41	12	738	1,880	686	1,275	1,594	2,936	5,653	(2)	907	3,437	902
	East North Central	36	8	713	2,300	636	1,205	1,821	3,609	6,574	640	(3)	(3)	(3)
	Illinois.....	32	8	707	2,287	630	1,196	1,808	3,569	6,494	640	977	4,090	931
	West North Central	5	...	32	59	26	39	45	115	224	(2)	(3)	(3)	(3)
	South.....	13	1	56	106	50	88	94	224	428	(2)	41	180	(D)
	West.....	32	6	384	1,200	319	593	879	1,999	3,400	(2)	382	1,768	(D)
	California.....	25	6	352	1,108	297	558	819	1,845	3,114	(2)	379	1,756	239
3988	Morticians' goods, total.....	592	219	17,362	73,736	13,805	27,760	50,604	128,879	237,773	5,754	16,729	92,024	22,375
	New England.....	34	15	1,033	4,153	816	1,604	2,908	6,767	13,230	(2)	850	4,333	1,035
	Massachusetts...	17	8	655	2,679	549	1,070	2,068	4,560	8,533	(2)	572	2,837	627
	Connecticut.....	6	2	122	651	41	91	170	1,137	2,350	(2)	105	829	159
	Middle Atlantic...	103	38	3,655	16,602	3,041	6,114	12,708	28,372	49,545	762	3,533	20,734	4,324
	New York.....	44	14	1,062	5,300	832	1,729	3,825	8,487	16,029	(2)	1,117	6,441	1,968
	New Jersey.....	14	3	147	612	110	236	452	974	2,730	(2)	177	1,001	133
	Pennsylvania....	45	21	2,446	10,690	2,099	4,149	8,431	18,911	30,786	(2)	2,239	13,290	2,223

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 2.—General Statistics by Regions and States: 1958, 1954, and 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture, unadjusted	All employees, number
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3988	Morticians' goods—Continued													
	East North Central	151	60	5,907	28,818	4,529	9,434	18,433	51,326	85,899	2,497	5,974	36,443	9,378
	Ohio.....	37	14	1,850	8,899	1,327	2,571	5,467	14,276	23,426	( <sup>2</sup> )	1,805	10,071	5,401
	Indiana.....	37	15	1,829	9,674	1,440	3,166	5,986	20,222	32,440	1,038	1,774	12,652	1,224
	Illinois.....	37	18	1,510	6,874	1,209	2,562	4,876	12,072	20,441	1,029	1,552	9,387	1,730
	Michigan.....	27	5	353	1,815	279	585	1,170	2,738	5,389	( <sup>2</sup> )	456	2,340	642
	Wisconsin.....	13	8	365	1,556	274	550	934	2,018	4,203	( <sup>2</sup> )	385	1,991	381
	West North Central	69	17	1,167	4,362	851	1,597	2,692	7,586	15,182	( <sup>2</sup> )	1,224	6,419	2,496
	Iowa.....	13	4	235	971	177	352	582	1,467	2,761	( <sup>2</sup> )	225	1,234	267
	Missouri.....	35	9	588	2,003	418	750	1,239	3,730	7,133	( <sup>2</sup> )	643	3,161	1,651
	South Atlantic....	72	25	1,999	6,085	1,647	3,175	4,237	11,006	22,998	( <sup>2</sup> )	1,961	8,725	1,576
	Virginia.....	13	3	228	705	198	391	534	1,318	2,605	( <sup>2</sup> )	193	1,029	182
	North Carolina..	16	7	358	1,005	284	583	698	2,109	4,290	( <sup>2</sup> )	440	1,505	412
	Georgia.....	17	8	923	2,564	812	1,512	1,917	4,130	8,638	( <sup>2</sup> )	747	3,241	309
	Florida.....	12	2	157	550	122	231	370	1,210	2,794	( <sup>2</sup> )	116	664	152
	East South Central	43	20	1,077	3,239	902	1,763	2,373	5,847	13,150	( <sup>2</sup> )	972	3,617	1,128
	Tennessee.....	24	12	683	1,963	587	1,158	1,542	3,671	8,043	( <sup>2</sup> )	528	1,706	542
	West South Central	49	20	1,189	4,259	941	1,946	2,729	7,646	15,081	( <sup>2</sup> )	1,035	4,063	1,223
	Mountain.....	11	1	136	659	110	215	410	1,250	2,483	( <sup>2</sup> )	120	768	110
	Pacific.....	60	23	1,199	5,559	968	1,912	4,114	9,079	20,205	909	1,056	6,919	1,105
	California.....	43	17	922	4,145	743	1,479	3,112	6,808	15,563	885	773	5,108	740

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies. <sup>T</sup>Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size for that State.

SIC 3981, Brooms and Brushes: New England—Maine, 3 (20-99); New Hampshire, 3 (100-249); Vermont, 3 (20-99); Massachusetts, 28 (2,170); Rhode Island, 3 (20-99); Connecticut, 10 (500-999); Middle Atlantic—New York, 105 (3,521); Pennsylvania, 51 (500-999); East North Central—Michigan, 20 (100-249); Wisconsin, 20 (500-999); West North Central—Missouri, 17 (250-499); Kansas, 6 (20-99); South—Delaware, 4 (20-99); Virginia, 5 (20-99); West Virginia, 3 (1-19); South Carolina, 3 (20-99); Georgia, 13 (100-249); Kentucky, 9 (20-99); Mississippi, 3 (20-99); Arkansas, 11 (20-99); Oklahoma, 8 (20-99); Mountain—Montana, 1 (1-19); New Mexico, 4 (1-19); Arizona, 2 (1-19); Utah, 1 (1-19); Pacific—Washington, 8 (20-99).

SIC 3982, Hard Surface Floor Coverings: New England—Maine, 2 (250-499); Massachusetts, 1 (500-999); Connecticut, 1 (250-499); Middle Atlantic—New Jersey, 3 (1,000-2,499); Pennsylvania, 3 (2,500-4999); North Central, South and West—Ohio, 1 (100-249); Delaware, 1 (250-499); Kentucky, 1 (20-49); California, 1 (250-499).

SIC 3983, Matches: Northeast—New Hampshire, 1 (100-249); Massachusetts, 1 (500-999); Middle Atlantic—New York, 2 (500-999); New Jersey, 1 (20-99); East North Central—Ohio, 5 (1,136); Illinois, 4 (500-999); West North Central—Minnesota, 1 (250-499); Missouri, 2 (250-499); South and West—Louisiana, 1 (100-249); Texas, 1 (1-19); Washington, 1 (100-249); California, 3 (250-499).

SIC 3984, Candles: Middle Atlantic—New Jersey, 6 (100-249); Pennsylvania, 4 (100-249); North-Central and South—Ohio, 2 (100-249); Illinois, 2 (1-19); Wisconsin, 3 (100-249); Iowa, 1 (1-19); Missouri, 1 (1-19); South Dakota, 1 (1-19); Maryland, 1 (1-19); Florida, 1 (1-19); Louisiana, 2 (1-19); Texas, 5 (20-99); West—Colorado, 1 (1-19); New Mexico, 1 (1-19); Oregon, 2 (1-19).

SIC 3987, Lamp Shades: Northeast—Vermont, 1 (1-19); Massachusetts, 5 (100-249); Connecticut, 6 (100-249); New Jersey, 25 (500-999); East North Central—Ohio, 1 (1-19); Michigan, 3 (1-19); West North Central—Minnesota, 1 (1-19); Iowa, 2 (20-99); Kansas, 2 (1-19); South—Delaware, 1 (1-19); Maryland, 1 (1-19); Georgia, 1 (1-19); Florida, 5 (1-19); Kentucky, 2 (20-99); Texas, 3 (1-19); West—Colorado, 1 (1-19); Arizona, 3 (1-19); Utah, 2 (1-19); Oregon, 1 (1-19).

SIC 3988, Morticians' Goods: New England—Maine, 3 (20-99); New Hampshire, 6 (100-249); Rhode Island, 2 (20-99); West North Central—Minnesota, 9 (100-249); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 3 (20-99); Kansas, 7 (20-99); South Atlantic—Maryland, 5 (100-249); District of Columbia, 1 (1-19); West Virginia, 3 (20-99); South Carolina, 5 (100-249); East South Central—Kentucky, 8 (100-249); Mississippi, 3 (20-99); West South Central—Arkansas, 7 (100-249); Louisiana, 9 (100-249); Oklahoma, 7 (20-99); Mountain—Colorado, 5 (20-99); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 3 (20-99); Pacific—Washington, 13 (100-249); Oregon, 4 (20-99).

<sup>2</sup>Less than \$500 thousand.

<sup>3</sup>This state was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such states. In the 1947 report, the footnote to table 2 usually provided similar information.



Table 3.—Detailed Statistics for the United States: 1958

Item	Brooms and brushes (SIC 3981)	Hard surface floor coverings (SIC 3982)	Matches (SIC 3983)	Candles (SIC 3984)	Lamp shades (SIC 3987)	Morticians goods (SIC 3988)
Primary product specialization ratio <sup>1</sup> .....	89	84	(D)	94	97	95
Coverage ratio <sup>2</sup> .....	94	98	(D)	95	97	99
Number of establishments, total.....	723	14	23	86	270	592
With 1-19 employees.....	544		3	61	220	373
With 20-99 employees.....	148	1	6	19	45	189
With 100 employees or more.....	31	13	14	6	5	30
Proprietors and working partners.....Number..	554	3	1	48	225	339
All employees:						
Number (average for the year).....	17,082	7,999	5,127	2,516	3,895	17,362
Payroll.....\$1,000..	64,573	41,924	21,097	9,268	11,401	73,736
Production workers:						
Number (average for the year).....	13,557	36,668	4,350	1,877	3,434	13,805
January.....	(NA)	6,748	(NA)	(NA)	(NA)	(NA)
February.....	(NA)	6,622	(NA)	(NA)	(NA)	(NA)
March.....	13,479	6,570	4,611	1,716	3,645	14,089
April.....	(NA)	6,617	(NA)	(NA)	(NA)	(NA)
May.....	13,334	6,506	4,292	1,746	3,041	13,981
June.....	(NA)	6,414	(NA)	(NA)	(NA)	(NA)
July.....	(NA)	6,328	(NA)	(NA)	(NA)	(NA)
August.....	13,508	6,760	4,129	1,926	3,522	13,741
September.....	(NA)	6,826	(NA)	(NA)	(NA)	(NA)
October.....	(NA)	6,899	(NA)	(NA)	(NA)	(NA)
November.....	14,087	6,854	4,412	2,148	3,599	13,617
December.....	(NA)	6,869	(NA)	(NA)	(NA)	(NA)
Man-hours .....1,000..	25,601	14,034	8,505	3,572	6,439	27,760
January-March.....do....	6,277	3,429	2,299	790	1,595	7,295
April-June.....do....	6,240	3,482	2,133	833	1,450	7,145
July-September.....do....	6,016	3,369	1,905	887	1,604	6,475
October-December.....do....	6,744	3,761	2,165	1,028	1,669	6,765
Wages.....\$1,000..	42,917	34,113	16,400	5,411	9,185	50,604
Cost of materials, etc., total.....do....	137,073	87,138	26,332	15,683	15,282	109,907
Materials, parts, containers, and supplies consumed.....do....	104,099	80,705	25,174	14,141	14,749	99,231
Cost of resales.....do....	29,835	2,375	399	1,204	149	8,216
Fuels consumed.....do....	619	2,459	335	250	66	901
Electricity purchased.....do....	1,114	1,519	321	86	149	1,047
Contract work.....do....	1,406	80	103	2	169	512
Value of shipments (including resales), total.....do....	275,722	181,584	67,018	33,802	34,066	237,773
Value of resales.....do....	52,464	2,957	416	1,534	174	11,176
Value added by manufacture, adjusted.....do....	137,496	93,145	41,776	17,668	18,577	128,879
Manufacturers' inventories:						
Beginning of year, total.....do....	65,047	42,186	9,598	5,910	3,839	38,533
Finished products.....do....	29,570	26,085	2,893	3,451	1,355	11,077
Work-in-process.....do....	6,868	7,800	1,780	380	519	9,084
Materials, supplies, fuel, etc.....do....	28,609	8,301	4,925	2,079	1,965	18,372
End of year, total.....do....	62,755	40,105	10,132	5,203	3,443	40,331
Finished products.....do....	28,942	24,624	3,923	3,013	1,193	11,554
Work-in-process.....do....	6,343	7,960	1,840	367	474	9,620
Materials, supplies, fuel, etc.....do....	27,470	7,521	4,369	1,823	1,776	19,157
Expenditures for plant and equipment, total.....do....	4,174	5,235	973	(4)	1,240	5,880
New, total.....do....	3,981	5,185	942	(4)	1,237	5,754
New structures and additions to plant.....do....	1,385	807	(4)	(4)	(4)	1,998
New machinery and equipment.....do....	2,596	4,378	776	(4)	1,035	3,756
Used plant and equipment.....do....	(4)	(4)	(4)	(4)	(4)	(4)

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. <sup>†</sup>Revised.

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Differs from the production worker figure appearing in tables 1 and 2 because the figures in those tables are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. In this table they represent the average of 12 monthly figures.

<sup>4</sup>Less than \$500 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3981	Brooms and brushes:											
	Number of establishments.....	723	334	123	87	96	52	21	8	1	1	...
	All employees:											
	Number.....	17,082	644	813	1,189	2,996	3,524	3,316	4,600	(D)	(D)	...
	Payroll.....\$1,000..	64,573	1,639	2,400	3,728	10,565	12,586	13,147	20,508	(D)	(D)	...
	Value added, adjusted..do....	137,496	4,066	4,063	6,217	20,572	21,227	24,918	56,433	(D)	(D)	...
	Value of shipments.....do....	275,722	8,999	9,630	13,708	40,080	44,079	51,077	108,149	(D)	(D)	...
	Capital expend., new...do....	3,981	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	525	( <sup>1</sup> )	609	1,607	(D)	(D)	...
3982	Hard surface floor coverings:											
	Number of establishments.....	14	...	...	...	1	...	3	5	4	...	1
	All employees:											
	Number.....	7,999	...	...	...	2,270	...	(D)	(D)	5,729	...	(D)
	Payroll.....\$1,000..	41,924	...	...	...	11,291	...	(D)	(D)	30,633	...	(D)
	Value added, adjusted..do....	93,145	...	...	...	19,843	...	(D)	(D)	73,302	...	(D)
	Value of shipments.....do....	181,584	...	...	...	42,737	...	(D)	(D)	138,847	...	(D)
	Capital expend., new...do....	5,185	...	...	...	1,397	...	(D)	(D)	3,788	...	(D)
3983	Matches:											
	Number of establishments.....	23	1	1	1	2	4	5	6	3	...	...
	All employees:											
	Number.....	5,127	99	(D)	(D)	(D)	326	722	2,149	1,831	...	...
	Payroll.....\$1,000..	21,097	410	(D)	(D)	(D)	1,360	2,492	8,999	7,836	...	...
	Value added, adjusted..do....	41,776	681	(D)	(D)	(D)	2,923	7,004	18,153	13,015	...	...
	Value of shipments.....do....	67,018	1,351	(D)	(D)	(D)	5,145	11,680	28,714	20,128	...	...
	Capital expend., new...do....	942	( <sup>1</sup> )	(D)	...	(D)	( <sup>1</sup> )	527	( <sup>1</sup> )	( <sup>1</sup> )	...	...
3984	Candles:											
	Number of establishments.....	86	29	14	18	12	7	4	2	...	...	...
	All employees:											
	Number.....	2,516	51	351	(D)	365	530	1,219	(D)	...	...	...
	Payroll.....\$1,000..	9,268	117	1,112	(D)	1,256	2,186	4,597	(D)	...	...	...
	Value added, adjusted..do....	17,668	390	2,095	(D)	2,334	4,031	8,818	(D)	...	...	...
	Value of shipments.....do....	33,802	743	4,420	(D)	4,635	7,978	16,026	(D)	...	...	...
	Capital expend., new...do....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...	...	...
3987	Lamp shades:											
	Number of establishments.....	270	129	45	46	34	11	4	1	...	...	...
	All employees:											
	Number.....	3,895	244	287	633	1,110	1,621	(D)	(D)	...	...	...
	Payroll.....\$1,000..	11,401	646	711	1,815	3,418	4,811	(D)	(D)	...	...	...
	Value added, adjusted..do....	18,577	1,435	1,395	3,059	5,147	7,541	(D)	(D)	...	...	...
	Value of shipments.....do....	34,066	2,702	2,514	6,078	9,993	12,779	(D)	(D)	...	...	...
	Capital expend., new...do....	1,237	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	...	...	...
3988	Morticians' goods:											
	Number of establishments.....	592	134	103	136	138	51	22	6	2	...	...
	All employees:											
	Number.....	17,362	293	695	1,945	4,383	3,305	3,734	3,007	(D)	...	...
	Payroll.....\$1,000..	73,736	873	2,196	7,578	18,351	12,458	16,579	15,701	(D)	...	...
	Value added, adjusted..do....	128,879	1,950	4,399	14,175	29,590	19,845	27,645	31,275	(D)	...	...
	Value of shipments.....do....	237,773	4,488	9,687	29,896	62,635	38,205	44,878	47,984	(D)	...	...
	Capital expend., new...do....	5,754	( <sup>1</sup> )	( <sup>1</sup> )	1,034	2,012	( <sup>1</sup> )	526	1,465	(D)	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Less than \$500 thousand.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3981	Brooms and brushes.....1958..	275,722	196,154	24,188	55,380	89	208,057	196,154	11,903	94
	.....1954..	227,162	166,818	17,239	43,105	91	180,751	166,818	13,933	92
3982	Hard surface floor coverings....1958..	181,584	149,577	28,670	3,337	84	151,893	149,577	2,316	98
	.....1954..	187,304	154,738	26,760	5,806	85	159,679	154,738	4,941	97
3983	Matches.....1958..	67,018	(D)	(D)	460	(D)	67,972	(D)	(D)	(D)
	.....1954..	60,765	59,946	181	638	100	61,246	59,946	1,300	98
3984	Candles.....1958..	33,802	30,079	2,055	1,668	94	31,746	30,079	1,667	95
	.....1954..	30,437	25,609	3,663	1,165	87	27,426	25,609	1,817	93
3987	Lamp shades.....1958..	34,066	32,773	970	323	97	33,835	32,773	1,062	97
	.....1954..	39,137	35,806	2,811	520	93	37,107	35,806	1,301	96
3988	Morticians' goods.....1958..	237,773	215,268	11,109	11,396	95	217,671	215,268	2,403	99
	.....1954..	177,287	159,035	5,548	12,704	97	164,432	159,035	5,397	97

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Brooms and brushes industry	Brooms and brushes (SIC 3981)	Other industries	All industries	Prod. class code	Candles industry	Candles (SIC 3984)	Other industries	All industries
	Total shipments and receipts of the industry.....	275,722	xxx	xxx		Total shipments and receipts of the industry.....	33,802	xxx	xxx
	Primary products.....	196,154	11,903	208,057	39840	Candles.....	30,079	1,667	31,746
39811	Brooms.....	31,463	2,278	33,741		Secondary products.....	2,055	xxx	xxx
39812	Paint and varnish brushes.....	(D)	(D)	60,666		Miscellaneous receipts.....	1,668	xxx	xxx
39813	Other brushes.....	93,982	19,407	103,389		Sale of products bought and resold.....	1,534	xxx	xxx
39810	Brooms and brushes, nsk.....	(D)	(D)	10,261		Scrap and salable refuse.....	35	xxx	xxx
	Secondary products.....	24,188	xxx	xxx		Other.....	99	xxx	xxx
23920	Housefurnishings, except curtain and draperies.....	7,259	xxx	xxx					
	Other.....	216,929	xxx	xxx	Prod. class code	Lamp shades industry	Lamp shades (SIC 3987)	Other industries	All industries
	Miscellaneous receipts.....	55,380	xxx	xxx		Total shipments and receipts of the industry.....	34,066	xxx	xxx
	Contract and commission work.....	1,346	xxx	xxx		Lamp shades.....	32,773	1,062	33,835
	Sales of products bought and resold.....	52,464	xxx	xxx		Secondary products.....	970	xxx	xxx
	Scrap and salable refuse and miscellaneous repair work.....	289	xxx	xxx		Miscellaneous receipts.....	323	xxx	xxx
	Other.....	1,281	xxx	xxx	39870				
Prod. class code	Hard surface floor covering industry	Hard surface floor covering (SIC 3982)	Other industries	All industries		Total shipments and receipts of the industry.....	237,773	xxx	xxx
	Total shipments and receipts of the industry.....	181,584	xxx	xxx		Primary products.....	215,268	2,403	217,671
	Primary products.....	149,577	2,316	151,893		Metal caskets and coffins.....	(D)	(D)	85,181
39821	Linoleum.....	(D)	(D)	47,839	39881	Wood caskets and coffins.....	(D)	(D)	69,995
39822	Asphalted-felt-base and supported plastic floor covering.....	100,369	2,211	102,580	39882	Other caskets and coffins, metal vaults.....	51,253	1,981	53,234
39820	Hard surface floor covering, nsk.....	(D)	(D)	1,474	39883	Morticians' goods, nec.....	9,261	...	9,261
	Secondary products.....	28,670	xxx	xxx	39880				
	Miscellaneous receipts.....	3,337	xxx	xxx		Secondary products.....	11,109	xxx	xxx
	Sales of products bought and resold.....	2,957	xxx	xxx		Miscellaneous receipts.....	11,396	xxx	xxx
	Other.....	380	xxx	xxx		Sales of products bought and resold.....	11,176	xxx	xxx
Prod. class code	Matches industry	Matches (SIC 3983)	Other industries	All industries		Other.....	220	xxx	xxx
	Total shipments and receipts of the industry.....	67,018	xxx	xxx					
39830	Matches.....	(D)	(D)	67,972					
	Secondary products.....	(D)	xxx	xxx					
	Miscellaneous receipts.....	460	xxx	xxx					

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Includes the following industries which had shipments of \$2 million or more but which are withheld to avoid disclosing individual company figures: 2842, Polishes and Sanitation goods; 3079, Plastic Products, NEC.

<sup>2</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 30791, Plastic dinnerware and housewares; 30793, Molded plastic products, nec; 39522, Artists' materials.

<sup>3</sup>Includes the following product classes which totaled \$2 million or more but which are withheld to avoid disclosing individual company figures: 24994, Cork products; 28911, Glues, adhesives, and gelatin; 29521, Asphalt and tar saturated felts and boards for nonbuilding uses; 32925, Asphalt floor tile; 32926, Vinyl asbestos floor tile.

<sup>4</sup>Includes the following product classes which total \$2 million or more but which are withheld to avoid disclosing individual company figures: 25153, Bedspreads; 38410, Surgical and medical instruments and apparatus.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Total shipments including interplant transfers					
		1958		1954			
		Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)		
3981---	Brooms and brushes, total.....	xxx	208,057	xxx	180,751		
39811--	Brooms <sup>1</sup> .....	xxx	33,741	xxx	36,662		
3981113	Household floor brooms.....	1,700	19,038	1,960	22,115		
3981138	Other brooms (industrial brooms, whisk brooms, toy brooms, hearth brooms, street-sweeping machine brooms, street brooms, stable brooms, etc.).....	xxx	4,951	xxx	7,237		
3981100	Brooms, nsk.....	xxx	9,752	xxx	7,310		
39812--	Paint brushes and paint rollers.....	xxx	60,666	xxx	56,809		
	Paint and varnish brushes, including whitewash, kalsomine, paper- hanging, marking, and stencilling brushes:						
3981211	Made of pure bristle.....	4,818	30,085	5,405	29,316		
3981231	Made of synthetic bristle.....	1,264	14,917	1,089	10,269		
3981251	Made of other materials, including mixtures.....	623	6,185	742	7,522		
3981271	Paint rollers, complete units.....	617	8,234	551	8,199		
3981200	Paint brushes and paint rollers, nsk.....	xxx	1,245	xxx	1,503		
39813--	Other brushes.....	xxx	103,389	xxx	84,679		
3981311	Artists' brushes and hair pencils, except artists' air brushes.....	2,014	4,002	1,687	4,094		
	Personal brushes:						
3981321	Tooth brushes.....	12,179	20,514	10,731	14,186		
3981325	Shaving brushes.....	xxx	937	233	1,641		
3981327	Hairbrushes.....	1,264	7,974	1,300	9,631		
3981329	Other.....	xxx	4,465	xxx	3,293		
	Maintenance brushes (floor sweeps and brushes, scrub brushes, dusting brushes, window brushes, etc.; excluding twisted-in-wire brushes):						
3981335	Household.....	xxx	13,903	xxx	22,036		
3981337	Industrial.....	xxx	13,094	xxx			
3981343	Industrial brushes, except maintenance (including power-driven rotary, end, cup, jewelers' and dentists' brushes, etc.).....	xxx	14,264	xxx	12,431		
3981351	Twisted-in-wire brushes (all types).....	xxx	9,678	xxx	9,862		
3981398	Other brushes.....	xxx	9,206	xxx	4,058		
3981300	Other brushes, nsk.....	xxx	5,352	xxx	3,447		
3981000	Brooms and brushes, nsk.....	xxx	10,261	xxx	2,601		
		1958		1954			
		Total production	Total shipments including inter- plant transfers	Total production	Total shipments including inter- plant transfers		
		(1,000 sq.yds.)	Quantity (1,000 sq.yds.) Value (\$1,000)	(1,000 sq.yds.)	Quantity (1,000 sq.yds.) Value (\$1,000)		
3982---	Hard surface floor coverings, total.....	xxx	xxx	151,893	xxx	xxx	154,826
39821--	Linoleum.....	xxx	xxx	47,839	xxx	xxx	84,706
	Sheet goods:						
3982111	Over-all thickness 1/8" and thicker.....	23,727	23,012	34,951	244,754	242,764	257,332
3982113	Over-all thickness less than 1/8":						
3982115	.050 wearing surface.....						
3982115	Less than .050 wearing surface.....	2,730	2,562	1,894	2 35,672	2 35,160	2 34,116
	Tile:						
3982131	Over-all thickness 1/8" and thicker (backed and unbacked).....	2,299	2,628	4,213	313,764	313,375	320,002
3982133	Over-all thickness less than 1/8":						
3982135	.050 wearing surface.....						
3982135	Less than .050 wearing surface.....	8,642	7,922	6,264	3,486	3,442	3,256
3982100	Linoleum, nsk.....	xxx	xxx	517	...	...	...
39822--	Asphalted-felt-base and supported plastic floor covering.....	xxx	xxx	102,580	xxx	xxx	70,120
	Floor covering:						
	Enamel coated or printed:						
3982212	Border rugs.....	59,044	59,682	17,756	65,852	69,648	24,756
	Sheet goods:						
3982222	Wider than 8/4.....	40,690	40,903	15,563	60,007	55,439	23,277
3982225	8/4 and narrower.....	16,168	16,729	4,840	29,384	31,182	10,602
3982232	Plastic coated or plastic printed border rugs and sheet goods (including rotogravure printed).....	63,352	56,406	33,109	7,495	7,665	4,500
3982249	Other asphalted-felt base floor covering.....						
3982251	Wall covering.....						
	Plastic floor, wall, and counter covering:						
	Supported (including scrap vinyl backed):						
3982281	Sheet goods.....	20,470	20,162	27,502	(2)	(2)	(2)
3982291	Tile.....	2,326	2,809	3,810	(3)	(3)	(3)
3982900	Hard-surface floor covering, nsk.....	(NA)	(NA)	1,474	...	...	...

See footnotes at end of table.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments, for the United States: 1958 and 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1953		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3983---	Matches, total.....	.....	xxx	67,972	xxx	61,246
3983012	Wooden stem: Packed in boxes of over 100 matches.....	Million matches	39,066	8,547	73,146	11,086
3983031	Packed in boxes of not over 100 matches: Strike-anywhere.....	...do.....	17,962	2,862	26,863	3,508
3983035	Strike-on-box.....	...do.....	56,700	6,238	47,545	5,473
3983061	Paper stem, packed in books or otherwise.....	...do.....	287,154	50,003	285,606	41,179
3983000	Matches, nsk.....	.....	xxx	322	...	...
3984011	Candles.....	.....	xxx	31,746	xxx	27,426
3987011	Lamp shades.....	.....	xxx	33,835	xxx	37,107
3988---	Morticians' goods, total.....	.....	xxx	217,671	xxx	164,432
39881--	Metal caskets and coffins, completely lined and trimmed.....	.....	xxx	85,181	xxx	58,045
3988111	Completely lined and trimmed.....	1,000 units...	545	83,509	399	56,479
3988100	Metal caskets and coffins, nsk.....	.....	xxx	1,672	xxx	1,566
39882--	Wood caskets and coffins, completely lined and trimmed.....	.....	xxx	69,995	xxx	64,406
3988211	Cloth covered, completely lined and trimmed.....	.....	638	39,815	672	40,971
3988252	Hard finish, completely lined and trimmed.....	1,000 units...	184	24,056	176	20,809
3988200	Wood caskets and coffins, nsk.....	.....	xxx	6,124	xxx	2,626
39883--	Other caskets and coffins, metal vaults, and morticians' supplies.....	.....	xxx	53,234	xxx	38,550
3988311	Other caskets and coffins, completely lined and trimmed (masonite, laminated plastic, etc.).....	.....	xxx	1,118	xxx	2,029
3988331	Metal caskets (unlined and/or untrimmed).....	1,000 units...	186	13,803	474	46,942
3988355	Wood caskets (unlined and/or untrimmed).....	...do.....	71	4,864	435	41,503
3988371	Casket and coffin shells.....	...do.....	265	6,746	4269	46,929
3988381	Outer burial boxes, except concrete (excluding shipping boxes).....	...do.....	190	2,475	198	2,941
3988391	Metal burial vaults (12 gauge or heavier) (excluding shipping cases)...	...do.....	(NA)	6,705	80	5,182
3988398	Other morticians' goods, including embalming chemicals, burial garments, wood and metal shipping cases, inner liners sold as such, and morticians' equipment and supplies.....	.....	xxx	12,016	xxx	11,209
3988300	Other caskets, boxes, vaults, and morticians supplies, nsk.....	.....	xxx	5,507	xxx	1,815
3988000	Morticians' goods, nsk.....	.....	xxx	9,261	xxx	3,431

NA Not available.

<sup>1</sup>Includes upright wound brooms, metal case brooms, or any other brooms of similar construction made of broomcorn or other fiber.<sup>2</sup>Figures for code 3982281 are included with those for codes 3982111, 3982113, and 3982115.<sup>3</sup>Figures for code 3982291 are included with those for codes 3982115, 3982131, and 3982133.<sup>4</sup>Data for product code 3988355, "Wood unlined and untrimmed caskets and coffins," and product code 3988331, "Metal unlined and untrimmed caskets and coffins," are included in product code 3988371, "Caskets and coffin shells."



Table 6B -Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	Product class, region, and State	Value of shipments
<u>Paint and varnish brushes</u>			<u>Metal caskets and coffins, completely lined and trimmed (39881)--Continued</u>	1954 <sup>1</sup>	<u>Wood caskets and coffins, complete lined and trimmed (39882)--Continued</u>	1958 <sup>1</sup>
United States, total:						
1958.....	6,000		New England.....	1,702	South Atlantic.....	8,403
1957.....	58,800		Massachusetts.....	1,084	Virginia.....	1,141
1956.....	62,318		Middle Atlantic.....	16,967	North Carolina.....	2,598
1955.....	78,301		Pennsylvania.....	14,875	Georgia.....	1,912
1954.....	78,350		East North Central.....	41,624	Florida.....	1,222
	1958 <sup>1</sup>	1954			East South Central.....	5,104
New England.....	6,452	6,953	Ohio.....	7,170	Tennessee.....	2,675
Massachusetts.....	5,702	(2)	Indiana.....	18,201	Alabama.....	1,353
Middle Atlantic.....	29,327	27,153	Illinois.....	10,042	West South Central.....	5,712
New York.....	18,415	17,432	Michigan.....	3,190	Arkansas.....	1,495
New Jersey.....	7,425	7,233	Wisconsin.....	3,021	Texas.....	2,544
Pennsylvania.....	3,469	2,488	West North Central.....	5,175	Mountain.....	1,306
North Central.....	13,243	15,627	Minnesota.....	1,111	Pacific.....	9,144
Illinois.....	3,328	3,191	Iowa.....	1,193	Washington.....	1,832
Michigan.....	1,109	1,245	Missouri.....	1,827	California.....	6,887
South.....	4,252	(2)	South Atlantic.....	7,299		
Pacific.....	2,431	(2)	Georgia.....	3,370		
			East South Central.....	2,894	<u>Other caskets and coffins, metal vaults, and morticians' supplies (39883):</u>	Value of shipments
<u>Other Brushes (39813):</u>	Value of shipments		Tennessee.....	2,394	United States, total:	
United States, total:			West South Central.....	4,323	1958.....	53,234
1958.....	103,389		Texas.....	2,644	1954.....	30,105
1957.....	84,679		West.....	5,197	1953.....	23,687
1956.....	105,758		California.....	3,060	1952.....	23,020
1955.....	103,991				1951.....	25,463
1954.....	107,299				1950.....	24,726
	98,260				1947.....	39,460
	82,252					
	1958 <sup>1</sup>	1954	<u>Wood caskets and coffins, completely lined and trimmed (39882):</u>	Value of shipments		1958 <sup>1</sup>
New England.....	21,457	20,110	United States, total:		New England.....	3,802
Massachusetts.....	13,768	12,819	1958.....	69,995	Massachusetts.....	2,052
Middle Atlantic.....	35,147	26,996	1957.....	69,134	Middle Atlantic.....	9,591
New York.....	29,551	22,262	1956.....	68,524	New York.....	3,132
New Jersey.....	4,041	3,592	1955.....	66,908	Pennsylvania.....	6,050
Pennsylvania.....	1,555	1,141	1954.....	65,909	East North Central.....	23,507
East North Central.....	30,640	23,777	1953.....	75,755	Ohio.....	10,403
Ohio.....	15,135	13,318	1952.....	72,217	Indiana.....	4,083
Illinois.....	9,006	5,914	1951.....	78,107	Illinois.....	8,244
Michigan.....	1,458	1,390	1950.....	66,571	West North Central.....	3,205
Wisconsin.....	3,738	1,572	1947.....	67,165	Missouri.....	2,380
West North Central.....	3,663	2,949			South Atlantic.....	3,321
South.....	8,231	8,008		1958 <sup>1</sup>	Georgia.....	2,443
West.....	4,251	2,839	New England.....	7,930	East South Central.....	3,162
California.....	4,052	2,508	Massachusetts.....	6,237	Tennessee.....	1,664
			Middle Atlantic.....	18,511	West South Central.....	2,741
			New York.....	9,266	Texas.....	2,028
			New Jersey.....	1,171	West.....	3,905
			Pennsylvania.....	8,074	California.....	3,161
<u>Metal caskets and coffins, completely lined and trimmed (39881):</u>	Value of shipments		East North Central.....	9,631		
United States, total:			Ohio.....	2,076		
1958.....	85,181		Indiana.....	3,526		
1957.....	111,157		Illinois.....	1,648		
1956.....	97,442		Michigan.....	1,213		
1955.....	80,509		Wisconsin.....	1,168		
1954.....	64,987		West North Central.....	4,254		
	71,614		Missouri.....	1,707		
1953.....	86,910					
1952.....	66,111					
1951.....	66,111					
1950.....	62,333					
1947.....						

Note: The figures shown for 1950-1953 and 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 39812, Ohio, Indiana, Wisconsin, Minnesota, Maryland, Oregon, and California; 39813, New Hampshire, Connecticut, Indiana, Minnesota, Maryland, and Kentucky; 39881, New York and Washington; 39882, Louisiana.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

## MANUFACTURES-INDUSTRY STATISTICS

Table 7.—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958		1954	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 3982—HARD SURFACE FLOOR COVERING					
	Materials, containers, and supplies, total.....		xxx	80,705	xxx	75,491
288031	Vegetable oils, including crude and processed.....	1,000 lbs...	59,090	6,951	57,739	8,549
282321	Vinyl plastics, all forms.....	...do.....	35,828	9,365	9,948	2,975
261351	Paper felts.....	...do.....	203,467	15,439	216,386	9,481
280051	Pigment.....	...do.....	26,197	6,280	43,998	8,975
970099	All other materials, parts, containers and supplies.....	.....	xxx	39,788	xxx	45,511
973000	Materials, containers, supplies, nsk.....	.....	xxx	2,882	xxx	xxx

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3981	BROOMS AND BRUSHES (entire industry).. Establishments with:	723	17,082	64,573	13,557	25,601	42,917	137,496	137,073	275,722	3,981
	90% or more specialization.....	663	12,798	47,985	10,208	19,341	31,934	88,472	92,024	181,993	3,046
	75-89% specialization.....	21	944	3,360	719	1,375	2,098	7,561	5,933	13,628	( <sup>1</sup> )
39811	Brooms (primary product class of estab.)..... Establishments with:	345	3,810	9,928	3,311	5,826	7,817	15,610	19,142	34,806	602
	90% or more specialization...	289	2,518	6,982	2,206	3,995	5,602	10,549	12,938	23,532	( <sup>1</sup> )
	75-89% specialization.....	21	263	689	235	412	545	1,047	1,670	2,702	( <sup>1</sup> )
39812	Paint and varnish brushes (primary product class of estab.)..... Establishments with:	74	4,181	16,701	3,237	6,077	10,351	29,034	35,025	64,593	662
	90% or more specialization...	66	3,579	14,312	2,789	5,235	8,880	25,066	30,512	56,060	587
39813	Other brushes (primary product class of estab.)..... Establishments with:	190	8,149	35,157	6,220	12,219	22,613	87,900	76,985	165,454	2,513
	90% or more specialization...	152	4,039	16,959	3,106	6,123	10,694	32,282	28,979	61,583	1,534
	75-89% specialization.....	18	1,487	6,376	1,106	2,176	4,106	16,127	12,098	28,995	( <sup>1</sup> )
3982	HARD SURFACE FLOOR COVERINGS (entire industry).....	14	7,999	41,924	6,722	14,034	34,113	93,145	87,138	181,584	5,185
39822	Asphalted-felt-base and supported plastic floor covering (primary product class of estab.).....	8	3,080	16,057	2,622	5,839	13,372	34,971	37,952	71,826	2,128
3988	MORTICIANS' GOODS (entire industry).... Establishments with:	592	17,362	73,736	13,805	27,760	50,604	128,879	109,907	237,773	5,754
	90% or more specialization.....	575	15,719	63,952	12,596	25,112	44,960	110,684	99,513	209,269	4,506
	75-89% specialization.....	6	224	832	198	390	681	1,165	977	2,131	( <sup>1</sup> )
39881	Metal caskets and coffins, completely lined and trimmed (primary product class of estab.).. Establishments with:	155	7,431	34,144	5,969	12,358	23,146	64,442	45,429	109,496	2,625
	90% or more specialization...	46	1,549	7,131	1,225	2,515	4,893	14,723	8,545	23,156	( <sup>1</sup> )
	75-89% specialization.....	23	936	3,565	754	1,521	2,414	5,998	5,761	11,742	917
39882	Wood caskets and coffins, completely lined and trimmed (primary product class of estab.).. Establishments with:	215	5,492	21,818	4,349	8,727	15,210	34,764	39,184	73,649	1,744
	90% or more specialization...	84	1,489	5,837	1,165	2,287	3,986	9,325	9,359	18,646	( <sup>1</sup> )
	75-89% specialization.....	36	1,178	4,553	959	1,980	3,312	6,642	7,744	14,327	754
39883	Other caskets and coffins metal vaults, and morticians supplies (primary product class of estab.).. Establishments with:	133	3,605	15,123	2,793	5,395	10,122	25,174	20,034	44,859	739
	90% or more specialization...	122	2,689	10,729	2,176	4,202	7,571	18,879	14,084	32,747	( <sup>2</sup> )

<sup>1</sup>Less than \$500 thousand.



## Miscellaneous Manufacturing Industries—Part II

This report shows 1958 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title (1957 edition)

3992—Furs, Dressed and Dyed  
3993—Signs and Advertising Displays  
3995—Umbrellas, Parasols, and Canes  
3999—Manufacturing Industries, Not Elsewhere Classified  
1911—Guns, Howitzers, Mortars, and Related Equipment  
1921—Artillery Ammunition  
1922—Ammunition Loading and Assembling  
1925—Guided Missiles, Complete (part of SIC  
  
1929—Ammunition, Not Elsewhere Classified  
1931—Tanks and Tank Components  
1941—Sighting and Fire Control Equipment  
1951—Small Arms  
1961—Small Arms Ammunition  
1999—Ordnance and Accessories, Not Elsewhere Classified

### 3992—Furs, Dressed and Dyed

This industry comprises establishments primarily engaged in scraping, currying, tanning, bleaching, and dyeing pelts. For a detailed list of products of Industry 3992, refer to table 6A, product code 3992011.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Furs, Dressed and Dyed Industry in 1958 totaled \$29 million. This included shipments of furs, dressed and dyed (primary products) valued at \$12 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$17 million.

### 3993—Signs and Advertising Displays

This industry comprises establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in service industries. Establishments primarily engaged in manufacturing electric signal equipment are classified in Industry 3662, and lighting fixtures in Industry 3642. For a detailed list of products of Industry 3993, refer to table 6A, product codes 3993111 to 3993311.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.

The value of shipments reported by establishments in Industry 3993 excluded receipts for advertising services, rental incomes, or charges for installation or maintenance performed by a separate labor force not included in the

regular labor force of the manufacturing establishment. The luminous tubing and bulb signs classified in this industry may be either sold outright or rented. In reporting the value of rented or leased signs, respondents were instructed to exclude all rental income but to estimate a sales value for those rented and leased signs completed during 1958, based upon cost of production or on the valuation placed on them for tax, insurance, or other purposes.

The data for advertising novelties are understated to the extent that some establishments manufacturing products which are used as advertising novelties are classified in industries determined by the product, not its use. Thus these establishments are in industries such as printing, pens and pencils, etc., rather than in signs and advertising displays.

Value of shipments and other receipts of the Signs and Advertising Displays Industry in 1958 totaled \$457 million. This included shipments of signs and advertising displays (primary products) valued at \$389 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly sales of scrap) of \$49 million.

This industry's shipments of signs and advertising displays (primary products) in 1958 represented 95 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 93 percent. Secondary products shipped by this industry in 1958 consisted mainly of screen process printing, except textiles, \$2 million, and vitreous enameled products, \$3 million.

While the primary products of the industry include luminous tubing and bulb signs, nonelectric signs and advertising displays, and advertising novelties, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 28 percent of the total industry shipments are represented by plants specializing in luminous tubing and bulb signs; 46 percent in nonelectric signs and advertising displays; and 14 percent in advertising novelties.

Industry 3993 shipments of signs and advertising displays (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$408 million shipped by all industries. In 1954, the coverage ratio was 92 percent. Another industry shipping signs and advertising displays (primary products) was Industry 3461, Metal Stampings, more than \$4 million.

### 3995—Umbrellas, Parasols, and Canes

This industry comprises establishments primarily engaged in manufacturing umbrellas, parasols, canes; and trimmings, frames, handles, and other parts. For a detailed list of products of Industry 3995, refer to table 6A, product code 3995011.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were unchanged as to code number or content from the previous classification system.



Value of shipments and other receipts of the Umbrellas, Parasols, and Canes Industry in 1958 totaled \$35 million. This included shipments of umbrellas, parasols, and canes (primary products) valued at \$33 million, shipments of other products (secondary products) valued at \$1 million, and miscellaneous receipts of under \$1 million.

This industry's shipments of umbrellas, parasols, and canes (primary products) in 1958 represented 96 percent (specialization ratio) of its total product shipments (primary and secondary). The industry specialization ratio in 1954 was 95 percent.

Industry 3995 shipments of umbrellas, parasols, and canes (primary products) in 1958 represented 95 percent (coverage ratio) of these products valued at \$35 million shipped by all industries. In 1954, the coverage ratio was 92 percent.

#### 3999--Manufacturing Industries, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing miscellaneous fabricated products, including fire extinguishers; beauty shop and barber shop equipment; hair work; tobacco pipes and cigarette holders; coin operated amusement machines; and many other articles, not elsewhere classified. For a detailed list of products of Industry 3999, refer to table 6A, product codes 3999111 to 3999361.

The statistics for this industry as classified under the 1957 edition of the Standard Industrial Classification Manual were significantly changed in comparison with data classified by the previous system. The composition of the industry as now constituted, compared with that under the classification system followed in the 1954 Census, is shown in table 1A. This table shows, in addition to the composition of the new Industry 3999, comparable data for those portions of old Industries 3579, 3991, 3994, and 3996 which became part of new Industry 3999.

Pin ball machines, and bell type machines and consoles; and other amusement machines, including strength testing, skill games, and other arcade pieces, formerly classified in Industry 3579, Office and Store Machines, N.E.C.; beauty and barber shop equipment, formerly classified in Industry 3991, Beauty and Barber Shop Equipment; hairwork, switches, toupees, wigs, formerly classified in Industry 3994, Hairwork; and tobacco pipes and cigarette holders, formerly classified in Industry 3996, Tobacco Pipes, are included in Industry 3999, Miscellaneous Products, N.E.C.

Value of shipments and other receipts of the Miscellaneous Products, N.E.C., Industry in 1958 totaled \$358 million. This included shipments of miscellaneous products, n.e.c. (primary products) valued at \$310 million, shipments of other products (secondary products) valued at \$27 million, and miscellaneous receipts (mainly sales of products bought and resold without further manufacture) of \$21 million.

This industry's shipments of miscellaneous products, n.e.c. (primary products) in 1958 represented 92 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of wood products, not elsewhere classified, more than \$2 million.

While the primary products of the industry include chemical fire extinguishers, equipment, and parts; coin operated amusement machines; and other miscellaneous fabricated

products, the degree to which plants specialize in the manufacture of each of these is indicated in table 8. Approximately 12 percent of the total industry shipments are represented by plants specializing in chemical fire extinguishers and parts; 12 percent in coin operated amusement machines; and 76 percent in other miscellaneous fabricated products.

Industry 3999 shipments of miscellaneous products, n.e.c. (primary products) in 1958 represented 87 percent (coverage ratio) of these products valued at \$357 million shipped by all industries. Another industry shipping miscellaneous products, n.e.c. (primary products) was Industry 2844, Toilet Preparations, \$5 million.

#### 1911--Guns, Howitzers, Mortars, and Related Equipment

This industry comprises establishments primarily engaged in manufacturing naval, aircraft, antiaircraft, tank, coast and field artillery having a bore over 30 mm (or over 1.18 inch) and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm (or 1.18 inch) and below are classified in Industry 1951.

#### 1921--Artillery Ammunition

This industry comprises establishments primarily engaged in manufacturing ammunition over 30 mm (or over 1.18 inch) for naval, aircraft, antiaircraft, tank, coast and field artillery, including component parts. Establishments primarily engaged in manufacturing small arms ammunition are classified in Industry 1961 and explosives in Industry 2892.

#### 1922--Ammunition Loading and Assembling

This industry comprises establishments primarily engaged in loading and assembling ammunition over 30 mm (or 1.18 inch).

#### 1925 (Census Code)--Guided Missiles, Complete (part of SIC Code 1929)

This industry comprises establishments primarily engaged in manufacturing complete guided missiles and in doing research and development on complete guided missiles. Establishments engaged in manufacturing guided missile components and in doing research and development on guided missile components are classified in Industry 3729. For a detailed list of products of Industry 1925, refer to table 6A, product codes 1925111 and 1925311.

The statistics for this industry under the previous classification system (prior to the revised 1957 edition of the Standard Industrial Classification Manual) are unavailable. In this report, based on the 1958 Census of Manufactures, the Standard Industrial Classification Industry 1929 has been divided into two separate ones--1925, Guided Missiles, Complete, and 1929, Ammunition, Not Elsewhere Classified. This has been done in view of the rapid growing importance of the Missile Industry to the American economy.

In Industry 1925, there is usually a significant difference between value of actual physical shipments and value of work done during a specified period. This is primarily due to lead time between the input of materials and labor and the shipments of completed missiles. In evaluating the internal relationships of the Complete Guided Missiles Industry, such as the ratio of cost of materials or payrolls to output, the value of missile



shipments for the year is generally not meaningful and value of work done is therefore substituted. For the 1958 Census of Manufactures, establishments manufacturing complete guided missiles were requested to report both the value of shipments of these missiles and value of work done during the year. This latter statistic included total costs (materials, labor, overhead, etc.) and reflected the value of work done during 1958, including work done on missiles not accepted during the year, but excluding the value of work done in prior years. In addition, value of work done in research and development on complete guided missiles is considered a receipt from primary activities of the establishments, rather than as a miscellaneous receipt. This is in view of the substantial importance in dollar terms of research and development on guided missiles. Research and development in this industry, as in the Aircraft and Electronics Industries, forms a substantial portion of an establishment's activities, rather than a small part as is usually associated with other "miscellaneous receipts."

Value of work done and other receipts of the Complete Guided Missiles Industry in 1958 totaled \$2,207 million. This included shipments of complete guided missiles (primary products) valued at \$1,596 million, shipments of other products (secondary products) valued at \$554 million, and miscellaneous receipts (mainly resales) of \$57 million.

This industry's shipments of complete guided missiles (primary products) in 1958 represented 74 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted mainly of aircraft equipment (\$251 million), and radio and TV communication equipment (\$58 million).

While the primary activities of the industry represent more than one class of product the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 33 percent of the total industry activities are represented by plants specializing in product class 19251, Guided missiles, complete; and 67 percent in product class 19253, Research and development on complete guided missiles.

Industry 1925 primary activities in 1958 represented 83 percent (coverage ratio) of these activities valued at \$1,917 million performed by all industries.

#### 1929--Ammunition, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing ammunition, n.e.c., including bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing military pyrotechnics are classified in Industry 2899.

#### 1931--Tanks and Tank Components

This industry comprises establishments primarily engaged in manufacturing or assembling complete tanks, and specialized components for tanks. Establishments primarily engaged in manufacturing military vehicles other than tanks are classified in Group 371 and tank engines in Industry 3519.

#### 1941--Sighting and Fire Control Equipment

This industry comprises establishments primarily engaged in manufacturing sighting and fire control equipment, but which are not engaged in manufacturing optical lenses and prisms. Important products of this industry include bomb sights, percentage correctors, wind correctors, directors and sound locators. Establishments engaged in manufacturing optical lenses and prisms and also manufacturing sighting and fire control equipment are classified in Industry 3831.

#### 1951--Small Arms

This industry comprises establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inch) and below, and parts for small firearms. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm (or over 1.18 inch), and component parts are classified in Industry 1911. For a detailed list of products of Industry 1951, refer to table 6A, product codes 1951232 to 1951281.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Small Arms Industry in 1958 totaled \$79 million. This included shipments of small arms (primary products) valued at \$70 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts of \$2 million.

This industry's shipments of small arms (primary products) in 1958 represented 91 percent (specialization ratio) of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1958 consisted partially of lawn mowers and parts, over \$2 million.

Industry 1951 shipments of small arms (primary products) in 1958 represented 81 percent (coverage ratio) of these products valued at \$86 million shipped by all industries. Other industries shipping small arms (primary products) consisted mainly of Industry 1925, Guided Missiles, and Industry 3717, Motor Vehicles and Parts.

#### 1961--Small Arms Ammunition

This industry comprises establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm (or 1.18 inch) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in Group 192; blasting and detonating caps, and safety fuses in Industry 2892; and fireworks in Industry 2899. For a detailed list of products of Industry 1961, refer to table 6A, product codes 1961012 and 1961081.

The code number as well as the definition of this industry were unchanged in the 1957 revision of the Standard Industrial Classification Manual from the previous classification system.

Value of shipments and other receipts of the Small Arms Ammunition Industry in 1958 totaled \$167 million. This included shipments of small arms ammunition (primary products) valued at \$141 million, shipments of other products (secondary products) and miscellaneous receipts of \$26 million.

Industry 1961 shipments of small arms ammunition (primary products) in 1958 represented 94 percent (coverage ratio) of these products valued at \$151 million shipped by all industries. Another industry shipping small arms ammunition (primary products) was Industry 1922, Ammunition Loading and Assembly.

1999--Ordnance and Accessories, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing ordnance and accessories, n.e.c.

GROUP 19-- ORDNANCE AND ACCESSORIES

For the 1958 Census of Manufactures, separate data are shown for each industry in Major Group 19. Tables

2, 5B, and 6B are not shown for all these industries for security considerations, on advice of the Bureau of the Budget.

Some industries have been combined in certain tables to avoid disclosing individual company figures. In tables 5A and 6A, Industries 1911, 1922, and 1999 have been combined for this reason. Therefore, the specialization and coverage ratios for each industry are not available. Included in table 7 for Industry 1999 are data for the following industries: 1911, 1921, 1922, 1929, 1931, 1941 and 1999. Individual materials reported for some of these industries were too small to warrant publication of a separate table for each industry. By combining the above industries, most of the data collected could be shown.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (percent)	Coverage ratio <sup>7</sup> (percent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3992 (old SIC 3992)	Furs, dressed and dyed:														
	1958.....	135	137	31	2,696	16,231	2,260	3,924	13,108	24,112	5,269	29,152	(8)	(9)	(9)
	1954.....	158	160	35	3,459	16,420	3,005	4,822	13,108	24,005	5,271	29,199	(8)	(9)	(9)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	7,332	28,574	6,414	11,168	23,252	41,696	10,297	51,993	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	7,338	25,221	6,344	10,948	20,076	38,559	9,962	48,521	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	6,630	22,409	5,897	9,620	16,706	34,295	9,002	43,297	(NA)	(NA)	(NA)
	1947.....	171	176	73	6,904	25,766	6,197	12,730	21,866	43,277	9,812	53,089	503	(9)	(9)
	1939.....	(NA)	136	(NA)	(NA)	(NA)	4,956	(NA)	8,875	17,018	4,015	21,033	(NA)	(NA)	(NA)
	1937.....	(NA)	121	(NA)	6,916	10,337	6,343	(NA)	8,335	15,314	6,449	21,763	(NA)	(NA)	(NA)
	1935.....	(NA)	167	(NA)	7,027	9,602	6,434	(NA)	7,561	14,697	6,643	21,340	(NA)	(NA)	(NA)
	1933.....	(NA)	181	(NA)	5,804	7,200	5,364	(NA)	6,246	15,408	9,540	24,948	(NA)	(NA)	(NA)
	1931.....	(NA)	243	(NA)	(NA)	(NA)	5,160	(NA)	7,968	21,652	16,221	37,873	(NA)	(NA)	(NA)
	1929.....	(NA)	248	(NA)	5,947	11,678	5,167	(NA)	8,596	21,588	18,649	40,237	(NA)	(NA)	(NA)
	1927.....	(NA)	172	(NA)	6,358	13,169	5,540	(NA)	10,361	20,609	7,072	27,681	(NA)	(NA)	(NA)
	1925.....	(NA)	133	(NA)	5,803	10,668	5,056	(NA)	8,206	18,127	7,296	25,423	(NA)	(NA)	(NA)
	1923.....	(NA)	162	(NA)	6,030	10,657	5,203	(NA)	8,381	18,225	7,242	25,467	(NA)	(NA)	(NA)
	1921.....	(NA)	126	(NA)	4,931	8,149	4,429	(NA)	6,759	13,087	6,070	19,157	(NA)	(NA)	(NA)
	1919.....	(NA)	141	(NA)	5,552	8,603	5,075	(NA)	7,098	14,046	6,339	20,385	(NA)	(NA)	(NA)
	1914.....	(NA)	96	(NA)	1,664	1,195	1,525	(NA)	923	1,969	906	2,875	(NA)	(NA)	(NA)
	1909.....	(NA)	93	(NA)	1,357	941	1,241	(NA)	806	1,580	811	2,391	(NA)	(NA)	(NA)
	1904.....	(NA)	85	(NA)	1,215	865	1,105	(NA)	755	1,574	1,642	3,216	(NA)	(NA)	(NA)
	1899.....	(NA)	92	(NA)	881	527	835	(NA)	478	880	520	1,400	(NA)	(NA)	(NA)
3993 (old SIC 3993)	Signs and advertising displays:														
	1958.....	2,691	2,725	460	36,170	173,028	27,949	53,572	118,887	281,168	179,078	457,025	13,505	95	95
	1957 <sup>10</sup> .....	(NA)	(NA)	(NA)	37,780	157,725	29,290	58,020	108,664	279,252	145,261	419,066	(NA)	95	88
	1956 <sup>10</sup> .....	(NA)	(NA)	(NA)	39,936	163,089	31,445	65,103	117,150	299,747	160,252	449,206	(NA)	(NA)	(NA)
	1955 <sup>10</sup> .....	(NA)	(NA)	(NA)	36,016	146,434	27,678	55,214	96,256	256,733	142,831	395,172	(NA)	(NA)	(NA)
	1954.....	2,600	2,620	394	33,581	135,578	26,205	51,681	90,602	219,942	142,909	362,094	6,967	93	92
	1953 <sup>10</sup> .....	(NA)	(NA)	(NA)	31,018	125,470	24,965	49,153	99,397	200,382	129,847	330,229	(NA)	(NA)	(NA)
	1952 <sup>10</sup> .....	(NA)	(NA)	(NA)	29,540	112,902	24,538	51,065	80,149	211,975	107,984	319,959	(NA)	(NA)	(NA)
	1951 <sup>10</sup> .....	(NA)	(NA)	(NA)	27,802	98,220	22,961	46,776	69,891	180,873	103,167	284,040	(NA)	(NA)	(NA)
	1950 <sup>10</sup> .....	(NA)	(NA)	(NA)	27,077	91,563	22,432	46,278	65,570	142,301	94,632	236,933	(NA)	(NA)	(NA)
	1947.....	1,933	1,982	350	28,489	81,190	23,987	49,611	61,339	128,969	75,762	204,731	5,540	95	88
	1939.....	(NA)	1,386	(NA)	23,370	33,675	17,206	(NA)	20,557	55,132	32,493	87,625	(NA)	(NA)	(NA)
	1937.....	(NA)	1,001	(NA)	19,857	27,311	16,042	(NA)	19,181	47,969	27,754	75,723	(NA)	(NA)	(NA)
	1935.....	(NA)	1,075	(NA)	17,702	22,612	13,712	(NA)	14,932	39,442	21,920	61,362	(NA)	(NA)	(NA)
	1933.....	(NA)	848	(NA)	14,488	14,969	12,044	(NA)	11,577	31,832	15,312	47,144	(NA)	(NA)	(NA)
	1931.....	(NA)	1,078	(NA)	(NA)	(NA)	14,463	(NA)	18,485	53,384	21,297	74,681	(NA)	(NA)	(NA)
	1929.....	(NA)	1,239	(NA)	25,119	41,027	20,000	(NA)	27,901	82,343	35,701	118,044	(NA)	(NA)	(NA)
	1927.....	(NA)	813	(NA)	21,470	34,456	16,907	(NA)	24,044	67,589	30,892	98,481	(NA)	(NA)	(NA)
	1925.....	(NA)	759	(NA)	19,142	29,892	15,128	(NA)	20,764	63,811	25,858	89,669	(NA)	(NA)	(NA)
	1923.....	(NA)	648	(NA)	15,960	22,335	12,988	(NA)	16,429	44,583	22,641	67,224	(NA)	(NA)	(NA)
	1921.....	(NA)	624	(NA)	13,041	18,345	10,373	(NA)	12,703	34,537	18,734	53,271	(NA)	(NA)	(NA)
	1919.....	(NA)	779	(NA)	14,208	16,347	10,432	(NA)	9,715	27,271	16,072	43,343	(NA)	(NA)	(NA)
	1914.....	(NA)	776	(NA)	12,048	9,019	9,566	(NA)	5,933	15,733	9,059	24,792	(NA)	(NA)	(NA)
	1909 <sup>11</sup> .....	(NA)	288	(NA)	7,066	4,581	5,540	(NA)	3,105	8,837	4,709	13,546	(NA)	(NA)	(NA)
3995 (old SIC 3995)	Umbrellas, parasols and canes:														
	1958.....	120	123	43	2,932	10,129	2,591	4,929	7,548	16,602	19,221	35,161	(8)	96	95
	1957.....	(NA)	(NA)	(NA)	3,484	10,765	3,049	5,575	8,028	15,082	20,933	36,154	(8)	94	96
	1956.....	(NA)	(NA)	(NA)	3,124	9,710	2,748	5,192	7,222	13,067	21,900	35,060	(8)	(NA)	(NA)
	1955.....	(NA)	(NA)	(NA)	3,298	9,859	2,887	5,379	7,414	13,977	19,819	34,412	(8)	(NA)	(NA)
	1954.....	138	140	45	3,210	9,364	2,873	5,150	6,965	14,589	16,965	32,014	(8)	95	92
	1952.....	(NA)	(NA)	(NA)	3,423	8,895	3,092	(NA)	7,589	15,741	17,748	33,489	(NA)	(NA)	(NA)
	1951.....	(NA)	(NA)	(NA)	3,404	8,334	3,136	(NA)	7,010	15,211	16,669	31,880	(NA)	(NA)	(NA)
	1947.....	162	164	41	3,585	8,360	3,267	6,628	6,490	15,421	18,927	34,348	526	97	100
	1939.....	(NA)	90	(NA)	3,236	3,055	2,862	(NA)	2,193	4,651	6,869	11,520	(NA)	(NA)	(NA)
	1937.....	(NA)	81	(NA)	3,367	3,219	3,088	(NA)	2,572	5,195	8,042	13,237	(NA)	(NA)	(NA)
	1935.....	(NA)	83	(NA)	2,432	2,267	2,186	(NA)	1,712	3,927	6,159	10,086	(NA)	(NA)	(NA)
	1933.....	(NA)	80	(NA)	2,336	1,798	2,155	(NA)	1,531	3,287	4,972	8,259	(NA)	(NA)	(NA)
	1931.....	(NA)	93	(NA)	1,852	(NA)	1,852	(NA)	1,611	3,979	5,136	9,115	(NA)	(NA)	(NA)
	1929.....	(NA)	141	(NA)	3,334	3,960	2,855	(NA)	2,768	7,087	10,907	17,994	(NA)	(NA)	(NA)
	1927.....	(NA)	164	(NA)	3,922	4,717	3,308	(NA)	3,411	9,135	14,021	23,156	(NA)	(NA)	(NA)
	1925.....	(NA)	176	(NA)	4,483	5,227	3,731	(NA)	3,696	10,705	16,594	27,299	(NA)	(NA)	(NA)
	1923.....	(NA)	187	(NA)	4,492	5,233	3,776	(NA)	3,739	10,395	18,000	28,395	(NA)	(NA)	(NA)
	1921.....	(NA)	154	(NA)	3,803	4,605	3,149	(NA)	3,126	9,119	16,889	26,008	(NA)	(NA)	(NA)
	1919.....	(NA)	198	(NA)	3,941	4,775	3,368	(NA)	3,140	9,676	15,633	25,309	(NA)	(NA)	(NA)
	1914.....	(NA)	265	(NA)	5,532	3,206	4,792	(NA)	2,167	5,221	8,592	13,813	(NA)	(NA)	(NA)
	1909.....	(NA)	256	(NA)	6,206	3,168	5,472	(NA)	2,253	5,808	10,056	15,864	(NA)	(NA)	(NA)
	1904.....	(NA)	204	(NA)	5,913	2,300	5,386	(NA)	1,826	5,046	8,250	13,296	(NA)	(NA)	(NA)
	1899.....	(NA)	202	(NA)	6,227	2,373	5,640	(NA)	1,869	5,288	8,381	13,669	(NA)	(NA)	(NA)

See footnotes at end of table.

## MANUFACTURES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry and year	Companies, number <sup>1</sup>	Establishments, number		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup>	Cost of materials <sup>4</sup>	Value of shipments <sup>5</sup>	Capital expenditures, new	Specialization ratio <sup>6</sup> (per cent)	Coverage ratio <sup>7</sup> (per cent)
			Total	With 20 or more employees	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)						
3999	Miscellaneous products, nec: 1958 <sup>1,2</sup> .....	1,235	1,259	264	27,285	109,053	21,890	42,116	76,299	192,313	174,792	358,076	7,317	92	87
1911 (old SIC 1911)	Guns, howitzers, and mortars: 1958.....	4	5	4	251	1,970	124	297	819	2,942	3,919	6,892	(D)	(NA)	(NA)
1921 (old SIC 1921)	Artillery ammunition: 1958.....	23	25	17	4,028	20,358	2,727	5,405	12,593	26,811	31,018	58,587	836	81	<sup>r</sup> 51
1922 (old SIC 1922)	Ammunition loading: 1958.....	6	6	4	1,189	6,624	767	1,570	4,013	8,985	203	139,042	(D)	(NA)	(NA)
1925	Guided missiles, complete: 1958.....	18	26	26	108,431	788,414	60,894	129,208	370,703	<sup>14</sup> 1,153,021	1,053,689	<sup>15</sup> 2,206,710	46,137	74	83
1929 (old SIC 1929)	Ammunition, nec: 1958.....	19	19	16	6,114	32,086	3,670	7,264	17,659	<sup>r</sup> 51,231	<sup>r</sup> 21,146	<sup>r</sup> 70,816	5,351	<sup>r</sup> 80	<sup>r</sup> 58
1931 (old SIC 1931)	Tanks and tank components: 1958.....	15	17	10	7,069	39,861	4,619	9,651	25,197	63,711	143,863	212,372	1,524	89	84
1941 (old SIC 1941)	Sighting and fire control equipment: 1958.....	22	25	20	45,506	304,273	23,695	47,831	132,838	457,757	391,752	845,851	6,358	<sup>r</sup> 65	91
1951 (old SIC 1951)	Small arms, 30mm and under: 1958.....	34	34	23	8,010	39,213	5,823	11,580	27,240	51,005	20,442	79,107	2,128	91	81
1961 (old SIC 1961)	Small arms ammunition: 1958.....	20	24	12	9,049	44,215	5,682	11,307	26,033	82,733	75,672	167,446	4,166	( <sup>16</sup> )	94
1999 (old SIC 1999)	Ordnance and accessories, nec: 1958.....	<sup>r</sup> 45	<sup>r</sup> 47	<sup>r</sup> 22	<sup>r</sup> 15,297	<sup>r</sup> 92,808	<sup>r</sup> 10,078	<sup>r</sup> 20,957	<sup>r</sup> 55,580	<sup>r</sup> 162,190	<sup>r</sup> 400,966	<sup>r</sup> 564,479	<sup>r</sup> 10,756	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

<sup>r</sup> Revised

NA Not available.

affiliates over which the company has acknowledged control. A company is counted once in an industry in which it has one or more establishments, but may also be counted in other industries where it operates establishments. Consequently, company counts for two or more industries may contain duplication.

<sup>2</sup>The method of compiling these figures has varied, as follows: All employees: for 1955-1958, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1958, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

<sup>3</sup>For the period 1954-1958, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture." For the industries included in this table, unadjusted value added by manufacture in 1954 was as follows:

Industry Code	Value Added (\$1,000)	Industry Code	Value Added (\$1,000)
3992	23,901	3999	(NA)
3993	216,666	1911-1999	(NA)
3995	14,917		

Footnotes continued on next page.



Footnotes for Table 1—39E

<sup>4</sup>For 1958 and 1954, includes cost of products bought for resale without further manufacture, processing or assembly; for other years, excludes cost of products bought for resale. See Introduction, "Cost of Materials Consumed, Etc." Figures for years prior to 1935 do not include cost of contract work. The cost of materials, etc., excluding the cost of products bought for resale, was as follows in 1958 and 1954:

Industry Code	Cost of Materials, etc. (\$1,000)		Industry Code	Cost of Materials, etc. (\$1,000)	
	1958	1954		1958	1954
3992	5,181	5,159	1925	1,027,950	(NA)
3993	171,673	136,674	1929	(NA)	(NA)
3995	18,970	16,695	1931	139,002	(NA)
3999	163,124	(NA)	1941	380,787	(NA)
1911	3,919	(NA)	1951	19,879	(NA)
1921	28,681	(NA)	1961	71,628	(NA)
1922	203	(NA)	1999	377,551	(NA)

<sup>5</sup>For 1958 and 1954, includes shipments of products bought for resale without further manufacture, processing or assembly; for other years, excludes value of such resales. See Introduction, "Value of Shipments." For 1939 and prior years, except 1929, the figures represent value of production rather than value of shipments. Value of shipments excluding resales was as follows in 1958 and 1954:

Industry Code	Value of Shipments (\$1,000)		Industry Code	Value of Shipments (\$1,000)	
	1958	1954		1958	1954
3992	29,054	29,060	1925	2,177,470	(NA)
3993	446,406	353,340	1929	(NA)	(NA)
3995	34,862	31,613	1931	207,276	(NA)
3999	343,979	(NA)	1941	833,451	(NA)
1911	6,892	(NA)	1951	78,383	(NA)
1921	56,250	(NA)	1961	159,508	(NA)
1922	9,042	(NA)	1999	1,538,879	(NA)

<sup>6</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry are engaged in making products regarded as primary to the specified industry. In calculating this measure of specialization, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>7</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all manufacturing establishments, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>8</sup>Less than \$500 thousand.

<sup>9</sup>Relationships not meaningful because of predominance of miscellaneous receipts, particularly contract and commission work on material owned by others.

<sup>10</sup>The figures for 1949-1953 and 1955-1957 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>11</sup>No comparable figures are available for earlier years.

<sup>12</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text. The resulting shifts in establishments, employment, and value added by manufacture are further described in table 1A.

<sup>13</sup>Represents primarily contract work.

<sup>14</sup>The adjusted value added for the Guided Missiles Industry does not take into account the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry are value of work done rather than value of shipments. It does include value added by resales.

<sup>15</sup>Represents value of work done.

<sup>16</sup>The specialization ratio for Industry 1961 is between 85 and 99 percent.

Table 1A.—Composition of New SIC Industries Based on Old SIC: 1958

(The data under the heading "Composition of new industry" are (1) on the "new industry" line, the 1958 totals for the industry based on the new SIC and (2) on the "old industry" lines, the industries in which these data would have been included had the industry definitions not been changed. Stated otherwise, it shows where the "new industry" came from. The data under the heading "Totals for industries on old SIC" are 1958 totals for the old (unrevised) industry and include data for establishments classified both in the specified new industry and for establishments classified in other new SIC industries. The relationship between the data in the first four columns and the last four columns shows the portion of the old SIC industry that was classified into the specified, newly defined, industry)

Industry	Composition of new industry				Totals for industries on old SIC <sup>1</sup>			
	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)	Establishments, number		Number of employees	Adjusted value added by manufacture (\$1,000)
	Total	20 or more employees			Total	20 or more employees		
New Industry 3999—Miscellaneous products, nec.....	1,259	264	27,285	192,313	xxx	xxx	xxx	xxx
Old Industry 3579—Office and store machines, nec.....	26	12	3,100	18,675	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Old Industry 3991—Beauty and barber shop equipment.....	75	22	1,892	16,150	75	22	1,892	16,150
Old Industry 3994—Hair work.....	130	24	1,593	8,322	130	24	1,593	8,322
Old Industry 3996—Tobacco pipes.....	32	10	1,122	7,105	32	10	1,122	7,105
Old Industry 3999—Miscellaneous products, nec.....	986	190	19,279	140,596	986	190	19,279	140,596
All other old industries <sup>2</sup> .....	10	6	299	1,465	xxx	xxx	xxx	xxx

<sup>1</sup>Revised

<sup>2</sup>Not shown where the establishments reclassified out of the old SIC industry comprised less than 10 percent of adjusted value added.

<sup>3</sup>These data are for a group of establishments that were classified in the industry because of shifts in their product classifications to conform to the new SIC, and classification errors for small establishments that were not corrected since they are not statistically significant.



## MANUFACTURES-INDUSTRY STATISTICS

Table 2.-General Statistics by Regions and States: 1958, 1954, and 1947

(For explanation of column captions see Introduction)

Ind. code	Industry, region, and State <sup>1</sup>	1958									1954		1947	
		Establishments, number		All employees		Production workers			Value added by manufac- ture, adjusted (\$1,000)	Value of shipments (\$1,000)	Capital expend- itures, new (\$1,000)	All em- ployees, number	Value added by manufac- ture, unadjusted (\$1,000)	All em- ployees, number
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
3992	Furs, dressed and dyed, total.....	137	31	2,696	16,231	2,260	3,924	13,108	24,112	29,152	( <sup>2</sup> )	3,459	23,901	6,904
	Northeast.....	116	28	2,351	14,172	1,993	3,429	11,703	20,295	24,607	( <sup>2</sup> )	3,099	21,065	6,628
	New York.....	98	20	1,644	10,304	1,379	2,350	8,679	15,296	18,416	( <sup>2</sup> )	2,090	15,146	3,520
	New Jersey.....	11	7	635	3,633	551	982	2,823	4,592	5,447	( <sup>2</sup> )	931	5,157	2,381
	North Central and West.....	21	3	345	2,059	267	495	1,405	3,817	4,545	( <sup>2</sup> )	360	2,836	276
3993	Signs and advertis- ing displays, total	2,725	460	36,170	173,028	27,949	53,572	118,887	281,168	457,025	13,505	33,581	216,666	28,489
	New England.....	150	22	1,648	7,322	1,318	2,561	5,176	11,044	18,637	503	1,189	7,138	1,343
	Massachusetts....	81	15	1,064	4,747	846	1,686	3,367	6,868	11,891	( <sup>2</sup> )	710	4,209	844
	Middle Atlantic...	722	135	9,886	45,123	7,910	15,136	32,060	72,739	120,302	3,364	9,440	60,321	7,696
	New York.....	462	89	6,471	29,330	5,214	10,009	20,843	47,861	79,021	2,102	6,087	38,736	4,934
	New Jersey.....	106	17	1,278	6,030	1,037	1,959	4,375	9,495	16,815	622	1,468	9,622	1,101
	Pennsylvania.....	154	29	2,137	9,763	1,659	3,168	6,842	15,383	24,466	640	1,885	11,962	1,661
	East North Central	624	137	10,719	55,305	8,239	16,138	36,018	88,499	148,515	3,998	10,563	70,618	9,591
	Ohio.....	163	40	3,092	15,024	2,384	4,690	10,171	22,871	38,572	739	3,332	21,811	4,179
	Illinois.....	225	57	4,605	24,675	3,502	6,998	15,769	39,520	65,262	1,807	4,547	30,716	3,545
	Wisconsin.....	71	13	1,261	5,682	1,001	1,892	3,799	9,439	17,248	630	948	5,543	536
	West North Central	222	49	3,336	14,333	2,506	4,768	9,412	25,646	40,645	1,379	3,239	19,682	2,772
	Iowa.....	39	3	577	2,218	377	707	1,259	5,717	8,728	( <sup>2</sup> )	574	3,481	609
	Kansas.....	26	4	241	1,091	173	340	710	1,761	2,783	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	South.....	532	50	5,021	21,824	3,930	7,447	15,840	36,830	59,280	1,989	4,426	24,871	3,454
	Virginia.....	28	4	506	2,390	420	863	1,795	3,370	6,008	( <sup>2</sup> )	414	2,214	404
	North Carolina..	26	1	148	465	120	216	396	1,083	1,682	( <sup>2</sup> )	161	853	121
	South Carolina..	14	1	187	597	124	208	402	1,225	1,583	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Kentucky.....	27	5	299	1,184	239	458	860	1,536	3,270	( <sup>2</sup> )	396	1,844	370
	Mountain.....	113	15	1,014	4,657	768	1,412	3,589	7,725	11,450	( <sup>2</sup> )	888	5,705	714
	Pacific.....	362	52	4,546	24,464	3,278	6,110	16,792	38,685	58,196	1,817	3,830	28,328	2,919
	Washington.....	57	5	435	2,246	305	533	1,654	2,975	4,278	( <sup>2</sup> )	443	3,064	336
	Oregon.....	34	4	290	1,541	202	319	1,016	2,626	3,604	( <sup>2</sup> )	340	2,189	298
	California.....	271	43	3,821	20,677	2,771	5,258	14,122	33,084	50,314	1,383	3,047	23,073	2,285
3995	Umbrellas, parasols and canes, total...	123	43	2,932	10,129	2,591	4,929	7,548	16,602	35,161	( <sup>2</sup> )	3,210	14,917	3,585
	Middle Atlantic...	101	37	2,340	8,339	2,057	3,923	6,339	13,753	28,725	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	New York.....	84	28	1,530	5,696	1,342	2,590	4,273	9,981	22,109	( <sup>2</sup> )	1,338	7,303	1,353
	New Jersey.....	6	2	246	755	229	377	643	868	1,526	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Pennsylvania.....	11	7	564	1,888	486	956	1,423	2,904	5,090	( <sup>2</sup> )	694	2,856	906
	South.....	12	3	405	1,179	368	719	786	1,813	4,065	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	All other divisions	10	3	187	611	166	287	423	1,036	2,371	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
3999	Miscellaneous prod- ucts, nec, total...	1,259	264	27,285	109,053	21,890	42,116	76,299	192,313	358,076	7,317	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Northeast.....	639	151	13,835	52,436	11,312	22,057	37,789	93,042	171,325	2,831	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Massachusetts...	44	12	1,446	5,685	1,134	2,298	3,919	9,175	15,648	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	Connecticut.....	28	12	824	4,288	670	1,402	2,881	8,354	16,184	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	New York.....	406	84	6,348	21,985	5,246	9,704	15,984	40,918	67,786	1,258	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	North Central.....	289	75	10,014	43,642	7,738	14,072	28,616	72,421	135,522	3,100	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	South.....	150	21	1,644	5,337	1,356	2,594	3,987	11,527	20,907	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	North Carolina..	12	3	308	797	279	514	673	1,677	2,762	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	West.....	181	17	1,792	7,638	1,484	3,393	5,907	15,323	30,322	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	California.....	145	13	1,575	6,810	1,334	3,128	5,375	14,041	27,583	520	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies.<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State for 1958 and, in parenthesis, the number of employees or the employment-size range for that State.

SIC 3992, Furs, Dressed and Dyed: Northeast—Vermont, 2 (1-19); Connecticut, 1 (1-19); Pennsylvania, 4 (20-99); North Central and West—Illinois, 2 (1-19); Wisconsin, 1 (20-99); Missouri, 2 (100-249); Colorado, 2 (1-19); Washington, 4 (1-19); California, 10 (20-99).

SIC 3993, Signs and Advertising Displays: New England—Maine, 6 (20-99); New Hampshire, 5 (20-99); Vermont, 5 (20-99); Rhode Island, 15 (100-249); Connecticut, 38 (250-499); East North Central—Indiana, 59 (500-999); Michigan, 106 (1,160); West North Central—Minnesota, 62 (1,013); Missouri, 63 (1,278); North Dakota, 4 (20-99); South Dakota, 5 (1-19); Nebraska, 23 (100-249); South—Delaware, 4 (20-99); Maryland, 20 (100-249); District of Columbia, 11 (20-99); West Virginia, 9 (20-99); Georgia, 43 (100-249); Florida, 89 (500-999); Tennessee, 34 (250-499); Alabama, 22 (100-249); Mississippi, 10 (20-99); Arkansas, 15 (20-99); Louisiana, 19 (250-499); Oklahoma, 37 (250-499); Texas, 124 (1,085); Mountain—Montana, 13 (100-249); Idaho, 15 (100-249); Wyoming, 4 (20-99); Colorado, 29 (250-499); New Mexico, 11 (20-99); Arizona, 19 (100-249); Utah, 17 (100-249); Nevada, 5 (20-99).

SIC 3995, Umbrellas, Parasols, and Canes: East North Central—Ohio, 2 (20-99); Illinois, 2 (1-19); West North Central—Iowa, 1 (1-19); Missouri, 1 (1-19); Kansas, 2 (1-19); South—Maryland, 5 (250-499); Florida, 3 (20-99); Mississippi, 1 (1-19); Arkansas, 2 (20-99); Louisiana, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 1 (20-99).

SIC 3999, Miscellaneous Products, NEC: Northeast—Maine, 1 (1-19); New Hampshire, 3 (1-19); Vermont, 3 (20-99); Rhode Island, 16 (500-999); New Jersey, 73 (2,009); Pennsylvania, 65 (2,539); North Central—Ohio, 33 (500-999); Indiana, 14 (100-249); Illinois, 110 (5,000 and over); Michigan, 53 (1,818); Wisconsin, 25 (1,000-2,499); Minnesota, 13 (250-499); Iowa, 9 (20-99); Missouri, 23 (250-499); North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 3 (20-99); Kansas, 3 (20-99); South—Delaware, 2 (20-99); Maryland, 24 (250-499); District of Columbia, 2 (1-19); Virginia, 2 (20-99); West Virginia, 3 (1-19); South Carolina, 3 (20-99); Georgia, 2 (1-19); Florida, 44 (250-499); Kentucky, 5 (20-99); Tennessee, 6 (20-99); Alabama, 4 (20-99); Mississippi, 1 (1-19); Arkansas, 2 (20-99); Louisiana, 6 (20-99); Oklahoma, 9 (100-249); Texas, 23 (100-249); West—Colorado, 7 (100-249); New Mexico, 2 (1-19); Arizona, 2 (1-19); Utah, 3 (20-99); Nevada, 1 (20-99); Washington, 15 (20-99); Oregon, 6 (20-99).

<sup>2</sup> Less than \$500 thousand.<sup>3</sup> This State was not shown as a separate line in table 2 in the 1954 report for this industry. A footnote to table 2 in the 1954 report showed the number of establishments and total employment (either actual or in size ranges) for such States. In the 1947 report, the footnote to table 2 usually provided similar information.<sup>4</sup> Comparable data for 1954 and 1947 are not available because of revisions in the Standard Industrial Classification (see table 1A and text of this report).



Table 3.—Detailed Statistics for the United States: 1958

Item	Furs, dressed and dyed (SIC 3992)	Signs and advertising displays (SIC 3993)	Umbrellas, parasols, and canes (SIC 3995)	Miscellaneous products, nec (SIC 3999)	Guns, howitzers and mortars (SIC 1911)	Artillery ammunition (SIC 1921)	Ammunition loading (SIC 1922)
Primary product specialization ratio <sup>1</sup> .....	( <sup>3</sup> )	95	96	92	(NA)	81	(NA)
Coverage ratio <sup>2</sup> .....	( <sup>3</sup> )	95	95	87	(NA)	751	(NA)
Number of establishments, total.....	137	2,725	123	1,259	5	25	6
With 1-19 employees.....	106	2,265	80	995	1	8	2
With 20-99 employees.....	23	407	38	212	3	6	1
With 100 employees or more.....	8	53	5	52	1	11	3
Proprietors and working partners.....Number..	71	1,949	91	725	...	3	2
All employees:							
Number (average for the year).....	2,696	36,170	2,932	27,285	251	4,028	1,189
Payroll.....\$1,000..	16,231	173,028	10,129	109,053	1,970	20,358	6,624
Production workers:							
Number (average for the year).....	2,260	27,949	2,591	21,890	124	2,727	767
March.....	2,346	26,952	2,574	21,493	189	2,888	875
May.....	2,181	27,877	2,633	21,832	95	2,581	818
August.....	2,374	28,244	2,499	21,315	106	2,656	738
November.....	2,172	29,430	2,680	22,912	110	2,783	638
Man-hours.....1,000..	3,924	53,572	4,929	42,116	297	5,405	1,570
January-March.....do....	1,005	12,469	1,178	10,014	110	1,450	446
April-June.....do....	905	13,010	1,263	10,438	72	1,306	429
July-September.....do....	972	12,997	1,120	9,887	56	1,298	365
October-December.....do....	978	13,864	1,320	11,060	59	1,356	328
Wages.....\$1,000..	13,108	118,887	7,548	76,299	819	12,593	4,013
Cost of materials, etc., total.....do....	5,269	179,078	19,221	174,792	3,919	31,018	203
Materials, parts, containers, and supplies consumed.....do....	4,821	156,804	18,199	155,704	3,707	26,573	198
Cost of resales.....do....	88	7,405	251	11,668	...	2,337	...
Fuels consumed.....do....	90	1,699	73	1,388	77	772	...
Electricity purchased.....do....	131	2,264	107	1,797	66	693	5
Contract work.....do....	139	10,906	591	14,235	69	643	...
Value of shipments (including resales), total.....do....	29,152	457,025	35,161	358,076	6,892	58,587	59,042
Value of resales.....do....	98	10,619	299	14,097	...	2,337	...
Value added by manufacture, adjusted...do....	24,112	281,168	16,602	192,313	2,942	26,811	8,985
Manufacturers' inventories:							
Beginning of year, total.....do....	1,567	43,497	3,894	72,717	2,604	17,308	29,326
Finished products.....do....	407	9,054	1,063	21,931	247	550	2,899
Work-in-process.....do....	642	13,433	1,272	24,137	101	4,793	225
Materials, supplies, fuel, etc.....do....	518	21,010	1,559	26,649	2,256	12,511	26,202
End of year, total.....do....	1,786	48,246	4,442	75,477	612	11,858	40,134
Finished products.....do....	434	9,736	1,604	31,636	218	254	2,962
Work-in-process.....do....	849	15,972	1,393	23,461	99	3,785	308
Materials, supplies, fuel, etc.....do....	503	22,538	1,445	20,380	295	7,819	36,864
Expenditures for plant and equipment, total.....do....	( <sup>4</sup> )	14,332	565	7,857	(D)	894	(D)
New, total.....do....	( <sup>4</sup> )	13,505	( <sup>4</sup> )	7,317	(D)	836	(D)
New structures and additions to plant.....do....	( <sup>4</sup> )	6,232	( <sup>4</sup> )	2,989	(D)	716	(D)
New machinery and equipment.....do....	( <sup>4</sup> )	7,273	( <sup>4</sup> )	4,328	(D)	120	(D)
Used plant and equipment.....do....	( <sup>4</sup> )	17,411	( <sup>4</sup> )	540	(D)	58	(D)

See footnotes at end of table.

Table 3.—Detailed Statistics for the United States: 1958—Continued

Item	Guided missiles, complete (SIC 1925)	Ammunition, nec (SIC 1929)	Tanks and tank components (SIC 1931)	Sighting and fire control equipment (SIC 1941)	Small arms, 30mm and under (SIC 1951)	Small arms ammunition (SIC 1961)	Ordnance and accessories, nec (SIC 1999)
Primary product specialization ratio <sup>1</sup> .....	74	r 80	89	93	91	(8)	(NA)
Coverage ratio <sup>2</sup> .....	83	r 58	84	91	81	94	(NA)
Number of establishments, total.....	26	19	17	25	34	24	r 47
With 1-19 employees.....	...	3	7	5	11	12	25
With 20-99 employees.....	...	2	3	...	11	3	10
With 100 employees or more.....	26	14	7	20	12	9	13
Proprietors and working partners.....Number..	...	1	8	2	7	9	r 12
All employees:							
Number (average for the year).....	108,431	6,114	7,069	45,506	8,010	9,049	r 15,297
Payroll.....\$1,000..	788,414	32,086	39,861	304,273	39,213	44,215	r 92,808
Production workers:							
Number (average for the year).....	60,894	3,670	4,619	23,695	5,823	5,682	r 10,078
March.....	58,680	4,087	4,448	24,002	6,681	5,846	r 10,021
May.....	59,723	3,485	4,492	23,327	5,740	5,646	r 10,067
August.....	61,036	3,484	4,662	23,199	5,421	5,535	r 9,815
November.....	64,132	3,629	4,865	24,241	5,490	5,706	r 10,270
Man-hours.....1,000..	129,208	7,264	9,651	47,831	11,580	11,307	r 20,957
January-March.....do....	30,911	2,071	2,267	12,307	3,404	2,984	r 4,807
April-June.....do....	31,499	1,820	2,391	12,060	3,031	2,771	r 5,208
July-September.....do....	32,072	1,599	2,451	11,193	2,368	2,680	r 5,266
October-December.....do....	34,736	1,774	2,539	12,268	2,770	2,863	r 5,656
Wages.....\$1,000..	370,703	17,659	25,197	132,838	27,240	26,033	r 55,580
Cost of materials, etc., total.....do....	1,053,689	r 21,146	143,863	391,752	20,442	75,672	r 400,966
Materials, parts, containers, and supplies consumed.....do....	979,754	r 18,761	137,160	364,931	18,070	69,026	r 372,921
Cost of resales.....do....	25,739	r 232	4,861	10,965	553	4,044	25,818
Fuels consumed.....do....	4,077		621	1,005	1,011	1,594	r 419
Electricity purchased.....do....	6,512	r 401	775	2,700	639	998	r 938
Contract work.....do....	37,607	r 1,752	446	12,151	169	10	2,874
Value of shipments (including resales), total.....do....	62,206,710	r 70,816	212,372	845,851	79,107	167,446	r 564,479
Value of resales.....do....	29,240	(D)	5,096	12,400	724	7,938	25,600
Value added by manufacture, adjusted...do....	71,153,021	r 51,231	63,711	457,757	51,005	82,733	r 162,190
Manufacturers' inventories:							
Beginning of year, total.....do....	264,960	r 28,860	29,912	155,704	45,009	147,829	63,357
Finished products.....do....	9,998	r 3,669	663	11,260	14,646	17,748	4,190
Work-in-process.....do....	194,597	r 2,626	22,222	118,617	21,572	13,641	53,470
Materials, supplies, fuel, etc.....do....	60,365	r 22,565	7,027	25,827	8,791	116,440	5,697
End of year, total.....do....	368,732	r 23,996	29,373	160,016	35,715	130,255	152,533
Finished products.....do....	5,138	r 3,235	590	12,559	11,063	12,707	43,096
Work-in-process.....do....	305,524	r 4,621	17,497	120,976	17,495	9,641	13,241
Materials, supplies, fuel, etc.....do....	58,070	r 16,140	11,286	26,481	7,157	107,907	96,196
Expenditures for plant and equipment, total.....do....	47,159	5,921	1,737	7,313	2,536	4,658	r 12,543
New, total.....do....	46,137	5,351	1,524	6,358	2,128	4,166	r 10,756
New structures and additions to plant.....do....	17,350	3,765	713	1,890	386	2,141	r 3,058
New machinery and equipment.....do....	28,787	1,586	811	4,468	1,742	2,025	r 7,698
Used plant and equipment.....do....	1,022	570	213	955	408	492	1,998

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

D Withheld to avoid disclosing figures for individual companies. r Revised

<sup>1</sup>The primary product specialization ratio measures the extent to which establishments classified in the industry "specialize" in making products regarded as primary to the industry. That is, value of shipments of primary products of establishments classified in the industry is expressed as a ratio to the total shipments of all products (primary plus secondary) made by these establishments (excluding miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair work, etc.). Also see tables 5A and 5B.

<sup>2</sup>The coverage ratio measures the extent to which all shipments of primary products of an industry are made by establishments classified in the industry. That is, value of shipments of primary products made by establishments in the industry is expressed as a ratio to the total shipments of primary products by all producers, both in and out of the specified industry. Also see tables 5A and 5B.

<sup>3</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly contract and commission work on materials owned by others.

<sup>4</sup>Less than \$500 thousand.

<sup>5</sup>Represents primarily contract work.

<sup>6</sup>Represents value of work done.

<sup>7</sup>See footnote 14, table 1.

<sup>8</sup>The specialization ratio for Industry 1961 is between 85 and 99 percent.



Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
3992	Furs, dressed and dyed:											
	Number of establishments.....	137	68	26	12	17	6	8	...	...	...	...
	All employees:											
	Number.....	2,696	138	175	160	553	449	1,221	...	...	...	...
	Payroll.....\$1,000..	16,231	633	954	776	2,424	2,982	8,462	...	...	...	...
	Value added, adjusted..do....	24,112	1,509	1,925	1,228	4,699	3,764	10,987	...	...	...	...
	Value of shipments.....do....	29,152	2,244	2,765	1,953	6,015	4,145	12,030	...	...	...	...
	Capital expend., new...do....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	...	...	...	...
3993	Signs and advertising displays:											
	Number of establishments.....	2,725	1,327	532	406	302	105	48	5	...	...	...
	All employees:											
	Number.....	36,170	2,715	3,607	5,532	8,889	6,893	7,007	1,527	...	...	...
	Payroll.....\$1,000..	173,028	10,607	16,319	26,916	44,144	33,405	33,579	8,058	...	...	...
	Value added, adjusted..do....	281,168	24,044	28,134	44,511	70,105	51,219	48,560	14,595	...	...	...
	Value of shipments.....do....	457,025	41,601	45,292	68,513	109,547	85,343	83,775	22,954	...	...	...
	Capital expend., new...do....	13,505	2,643	1,841	1,984	3,432	1,821	1,432	( <sup>1</sup> )	...	...	...
3995	Umbrellas, parasols, and canes:											
	Number of establishments.....	123	42	19	19	29	9	5	...	...	...	...
	All employees:											
	Number.....	2,932	83	127	289	829	624	980	...	...	...	...
	Payroll.....\$1,000..	10,129	210	344	928	3,025	2,084	3,538	...	...	...	...
	Value added, adjusted..do....	16,602	507	586	1,730	5,716	3,165	4,898	...	...	...	...
	Value of shipments.....do....	35,161	1,144	1,586	3,450	12,211	6,947	9,823	...	...	...	...
	Capital expend., new...do....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	...	...	...	...
3999	Miscellaneous products, nec:											
	Number of establishments.....	1,259	581	227	187	151	61	34	12	4	2	...
	All employees:											
	Number.....	27,285	1,085	1,518	2,463	4,565	4,185	5,085	3,882	<u>4,502</u>	(D)	...
	Payroll.....\$1,000..	109,053	4,093	5,471	8,520	17,103	17,483	21,337	15,435	<u>19,611</u>	(D)	...
	Value added, adjusted..do....	192,313	13,433	12,580	18,328	29,375	24,804	33,546	27,108	<u>33,139</u>	(D)	...
	Value of shipments.....do....	358,076	18,062	22,792	34,291	55,447	55,839	68,201	46,246	<u>57,198</u>	(D)	...
	Capital expend., new...do....	7,317	1,060	1,080	829	1,231	1,208	1,003	( <sup>1</sup> )	( <sup>1</sup> )	(D)	...
1911	Guns, howitzers, and mortars:											
	Number of establishments.....	5	...	1	...	3	...	1	...	...	...	...
	All employees:											
	Number.....	251	...	251	...	(D)	...	(D)	...	...	...	...
	Payroll.....\$1,000..	1,970	...	<u>1,970</u>	...	(D)	...	(D)	...	...	...	...
	Value added, adjusted..do....	2,942	...	<u>2,942</u>	...	(D)	...	(D)	...	...	...	...
	Value of shipments.....do....	6,892	...	<u>6,892</u>	...	(D)	...	(D)	...	...	...	...
	Capital expend., new...do....	(D)	...	(D)	...	(D)	...	(D)	...	...	...	...
1921	Artillery ammunition:											
	Number of establishments.....	25	2	3	3	1	5	5	5	...	1	...
	All employees:											
	Number.....	4,028	<u>22</u>	(D)	<u>88</u>	(D)	348	697	<u>2,873</u>	...	(D)	...
	Payroll.....\$1,000..	20,358	<u>148</u>	(D)	<u>455</u>	(D)	1,582	3,484	<u>14,689</u>	...	(D)	...
	Value added, adjusted..do....	26,811	<u>132</u>	(D)	<u>1,062</u>	(D)	3,168	6,015	<u>16,434</u>	...	(D)	...
	Value of shipments.....do....	58,587	<u>357</u>	(D)	<u>1,856</u>	(D)	10,160	9,006	<u>37,208</u>	...	(D)	...
	Capital expend., new...do....	<u>836</u>	(D)	(D)	(D)	(D)	<u>828</u>	(D)	(D)	...	(D)	...
1922	Ammunition loading:											
	Number of establishments.....	6	2	...	...	1	...	1	1	1	...	...
	All employees:											
	Number.....	1,189	<u>1,189</u>	...	...	(D)	...	(D)	(D)	(D)	...	...
	Payroll.....\$1,000..	6,624	<u>6,624</u>	...	...	(D)	...	(D)	(D)	(D)	...	...
	Value added, adjusted..do....	8,985	<u>8,985</u>	...	...	(D)	...	(D)	(D)	(D)	...	...
	Value of shipments.....do....	9,042	<u>9,042</u>	...	...	(D)	...	(D)	(D)	(D)	...	...
	Capital expend., new...do....	(D)	(D)	...	...	(D)	...	(D)	(D)	(D)	...	...
1925	Guided missiles complete:											
	Number of establishments.....	26	...	...	...	...	...	1	1	3	7	14
	All employees:											
	Number.....	108,431	...	...	...	...	...	<u>2,316</u>	(D)	(D)	10,327	95,788
	Payroll.....\$1,000..	788,414	...	...	...	...	...	<u>15,359</u>	(D)	(D)	58,343	714,712
	Value added, adjusted..do....	1,153,021	...	...	...	...	...	<u>22,031</u>	(D)	(D)	84,647	1,046,343
	Value of shipments.....do....	2,206,710	...	...	...	...	...	<u>30,838</u>	(D)	(D)	158,125	2,017,747
	Capital expend., new...do....	46,137	...	...	...	...	...	<u>2,530</u>	(D)	(D)	2,196	41,411
1929	Ammunition:											
	Number of establishments.....	19	...	1	2	1	1	9	2	1	2	...
	All employees:											
	Number.....	6,114	...	<u>6,114</u>	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
	Payroll.....\$1,000..	32,086	...	<u>32,086</u>	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
	Value added, adjusted..do....	51,231	...	<u>51,231</u>	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
	Value of shipments.....do....	170,816	...	<u>170,816</u>	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
	Capital expend., new...do....	5,351	...	<u>5,351</u>	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—Selected Statistics for Manufacturing Establishments, Classified by Employment Size, for the United States: 1958—Continued

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
1931	Tanks and tank components:											
	Number of establishments.....	17	4	...	3	2	1	1	1	2	2	1
	All employees:											
	Number.....	7,069	5	...	40	<u>131</u>	(D)	<u>1,936</u>	(D)	(D)	<u>4,957</u>	(D)
	Payroll.....\$1,000..	39,861	11	...	237	<u>582</u>	(D)	<u>10,386</u>	(D)	(D)	<u>28,645</u>	(D)
	Value added, adjusted..do....	63,711	22	...	514	<u>742</u>	(D)	<u>10,038</u>	(D)	(D)	<u>52,395</u>	(D)
	Value of shipments.....do....	212,372	35	...	772	<u>1,330</u>	(D)	<u>21,056</u>	(D)	(D)	<u>189,179</u>	(D)
	Capital expend., new...do....	1,524	( <sup>1</sup> )	...	(D)	(D)	(D)	( <sup>1</sup> )	...	(D)	<u>1,379</u>	(D)
1941	Sighting and fire-control equipment:											
	Number of establishments.....	25	3	2	...	...	...	3	3	4	6	4
	All employees:											
	Number.....	45,506	<u>15</u>	(D)	...	...	...	467	1,224	3,674	8,832	31,294
	Payroll.....\$1,000..	304,273	<u>67</u>	(D)	...	...	...	3,290	7,115	22,685	60,966	210,150
	Value added, adjusted..do....	457,757	<u>109</u>	(D)	...	...	...	4,686	6,618	29,746	106,911	309,687
	Value of shipments.....do....	845,851	<u>265</u>	(D)	...	...	...	6,264	11,486	46,197	183,960	597,679
	Capital expend., new...do....	6,358	( <sup>1</sup> )	(D)	...	...	...	( <sup>1</sup> )	( <sup>1</sup> )	666	1,452	3,837
1951	Small arms, 30mm and under:											
	Number of establishments.....	34	5	3	3	9	2	5	1	4	2	...
	All employees:											
	Number.....	8,010	7	16	35	<u>495</u>	(D)	<u>1,295</u>	(D)	<u>6,162</u>	(D)	...
	Payroll.....\$1,000..	39,213	18	55	152	<u>2,549</u>	(D)	<u>5,437</u>	(D)	<u>31,002</u>	(D)	...
	Value added, adjusted..do....	51,005	34	72	254	<u>4,528</u>	(D)	<u>7,337</u>	(D)	<u>38,780</u>	(D)	...
	Value of shipments.....do....	79,107	65	101	369	<u>7,136</u>	(D)	<u>12,250</u>	(D)	<u>59,186</u>	(D)	...
	Capital expend., new...do....	2,128	( <sup>1</sup> )	(D)	(D)	( <sup>1</sup> )	(D)	( <sup>1</sup> )	(D)	<u>1,858</u>	(D)	...
1961	Small arms ammunition:											
	Number of establishments.....	24	10	1	1	3	...	1	1	4	3	...
	All employees:											
	Number.....	9,049	16	599	(D)	(D)	...	(D)	(D)	<u>8,434</u>	(D)	...
	Payroll.....\$1,000..	44,215	91	<u>2,852</u>	(D)	(D)	...	(D)	(D)	<u>41,272</u>	(D)	...
	Value added, adjusted..do....	82,733	108	<u>7,522</u>	(D)	(D)	...	(D)	(D)	<u>75,103</u>	(D)	...
	Value of shipments.....do....	167,446	261	<u>15,623</u>	(D)	(D)	...	(D)	(D)	<u>151,562</u>	(D)	...
	Capital expend., new...do....	4,166	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	...	(D)	(D)	<u>4,016</u>	(D)	...
1999	Ordnance and accessories, nec:											
	Number of establishments.....	<sup>r</sup> 47	14	7	4	5	5	5	1	2	3	<sup>r</sup> 1
	All employees:											
	Number.....	<sup>r</sup> 15,297	27	55	59	149	357	839	<sup>r</sup> 13,811	(D)	(D)	(D)
	Payroll.....\$1,000..	<sup>r</sup> 92,808	148	304	329	756	2,455	4,879	<sup>r</sup> 83,937	(D)	(D)	(D)
	Value added, adjusted..do....	<sup>r</sup> 162,190	306	446	508	1,356	3,643	6,385	<sup>r</sup> 149,546	(D)	(D)	(D)
	Value of shipments.....do....	<sup>r</sup> 564,479	529	737	633	2,680	6,719	13,524	<sup>r</sup> 539,657	(D)	(D)	(D)
	Capital expend., new...do....	<sup>r</sup> 10,756	19	82	46	40	248	616	<sup>r</sup> 9,705	(D)	(D)	(D)

<sup>r</sup>Revised<sup>1</sup>Less than \$500 thousand.<sup>2</sup>See footnote 14 table 1.<sup>3</sup>Represents value of work done.



Table 5A.—Industry Product Analysis; Summary of Industry and Primary Product Shipments,  
Specialization Ratios and Coverage Ratios for the United States: 1958 and 1954

(An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.)

Ind. code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio <sup>1</sup>	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (percent) (I)
3992	Furs, dressed and dyed.....1958..	29,152	12,056	...	17,096	( <sup>3</sup> )	12,056	12,056	...	( <sup>3</sup> )
	1954..	29,199	4,464	...	24,735	( <sup>3</sup> )	6,284	4,464	1,820	( <sup>3</sup> )
3993	Signs and advertising displays.1958..	457,025	388,726	19,247	49,052	95	407,893	388,726	19,167	95
	1954..	362,094	303,567	21,800	36,727	93	329,894	303,567	26,327	92
3995	Umbrellas, parasols and canes..1958..	35,161	32,973	1,470	718	96	34,658	32,973	1,685	95
	1954..	32,014	29,790	1,535	689	95	32,409	29,790	2,619	92
3999	Miscellaneous products, nec....1958..	358,076	309,987	26,953	21,136	92	357,173	309,987	47,186	87
1911	Guns, howitzers and mortars....1958..	r6,892	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	(NA)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	(NA)
1921	Artillery ammunition.....1958..	58,587	36,388	8,451	13,748	81	r70,736	36,388	r34,348	r51
1922	Ammunition loading.....1958..	r9,042	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	(NA)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	(NA)
1925	Complete guided missiles.....1958..	s2,206,710	1,596,244	553,508	56,958	74	1,917,392	1,596,244	321,148	83
1929	Ammunition, nec.....1958..	r70,816	r36,155	r9,296	r25,364	r80	r62,295	r36,155	26,140	r58
1931	Tanks and tank components.....1958..	212,372	177,756	20,698	13,918	89	210,752	177,756	32,996	84
1941	Sighting and fire control equipment.....1958..	845,851	532,239	286,519	27,093	r65	585,983	532,239	53,744	91
1951	Small arms, 30mm and under.....1958..	79,107	69,611	6,961	2,535	91	86,037	69,611	16,426	81
1961	Small arms ammunition.....1958..	167,446	141,352	( <sup>6</sup> )	e26,094	( <sup>6</sup> )	150,651	141,352	9,299	94
1999	Ordnance and accessories, nec..1958..	r4580,413	4511,476	411,872	r457,065	(NA)	4581,758	4511,476	470,282	(NA)

r Revised

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in tables 5B and 6A; the first four digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly contract and commission work on materials owned by others.

<sup>4</sup>Data for Industries 1911 and 1922 are included with Industry 1999 to avoid disclosing figures of individual companies.

<sup>5</sup>Represents value of work done.

<sup>6</sup>For Industry 1961, value of shipments of shipments of secondary products are included with miscellaneous receipts. The specialization ratio is between 85 and 99 percent.

## MANUFACTURES-INDUSTRY STATISTICS

Table 5B.-Industry-Product Analysis-Shipments by Product Class and Industry, for the United States: 1958

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Product class code	Furs, dressed and dyed industry	Furs, dressed and dyed (SIC 3992)	Other industries	All industries
	Total shipments and receipts of the industry.....	29,152	xxx	xxx
39920	Furs, dressed and dyed.....	12,056	...	12,056
	Miscellaneous receipts.....	17,096	xxx	xxx
	Contract and commission work.....	16,848	xxx	xxx
	Other.....	248	xxx	xxx
Product class code	Signs and advertising displays industry	Signs and advertising displays (SIC 3993)	Other industries	All industries
	Total shipments and receipts of the industry.....	457,025	xxx	xxx
	Primary products.....	388,726	19,167	407,893
39931	Luminous tubing and bulb signs.....	96,443	3,412	99,855
39932	Nonelectric signs and advertising displays.....	184,043	19,439	193,482
39933	Advertising novelties.....	58,343	26,018	64,361
39930	Signs and advertising displays, nsk.....	49,897	298	50,195
	Secondary products.....	19,247	xxx	xxx
27519	Screen process printing, except textiles.....	2,291	xxx	xxx
34611	Vitreous enameled products.....	2,611	xxx	xxx
	Other secondary products.....	14,345	xxx	xxx
	Miscellaneous receipts.....	49,052	xxx	xxx
	Contract and commission work.....	5,619	xxx	xxx
	Sales of scrap and refuse, and repair work.....	26,457	xxx	xxx
	Sales of products bought and resold without further manufacture.....	10,619	xxx	xxx
	Other.....	6,357	xxx	xxx
Product class code	Umbrellas, parasols, and canes industry	Umbrellas, parasols, and canes (SIC 3995)	Other industries	All industries
	Total shipments and receipts of the industry.....	35,161	xxx	xxx
39950	Umbrellas, parasols, and canes.....	32,973	1,685	34,658
	Secondary products.....	1,470	xxx	xxx
	Miscellaneous receipts.....	718	xxx	xxx
Product class code	Miscellaneous products, nec, industry	Miscellaneous products, nec (SIC 3999)	Other industries	All industries
	Total shipments and receipts of the industry.....	358,076	xxx	xxx
	Primary products.....	309,987	47,186	357,173
39991	Chemical fire extinguishing equipment and parts.....	36,339	10,547	46,886
39992	Coin-operated amusement machines.....	38,999	123	39,122
39993	Other miscellaneous fabricated products.....	234,649	36,516	271,165
	Secondary products.....	26,953	xxx	xxx
	Miscellaneous receipts.....	21,136	xxx	xxx
	Sales of scrap and refuse and miscellaneous repair work.....	2,990	xxx	xxx
	Sales of products bought and resold without further manufacture.....	14,097	xxx	xxx
	Other.....	4,049	xxx	xxx

See footnotes at end of table.



Table 5B.—Industry-Product Analysis—Shipments by Product Class and Industry,  
for the United States: 1958—Continued

Product class code	Guided missiles, complete, industry	Guided missiles (Census Industry 1925)	Other industries	All industries
	Total shipments and receipts of the industry.....	2,206,710	xxx	xxx
19251	Primary products.....	1,596,244	321,148	1,917,392
19253	Guided missiles, complete.....	1,596,244	321,148	{ 931,547 985,845
	Research and development on guided missiles (complete).....			
	Secondary products.....	553,508	xxx	xxx
19---	Major group 19 ordnance and accessories.....	19,251	xxx	xxx
3662-	Radio, TV communication equipment.....	58,364	xxx	xxx
36795	Other electronic components and accessories, nec.....	5,227	xxx	xxx
3729-	Aircraft equipment, nec.....	250,866	xxx	xxx
	All other secondary products.....	219,800	xxx	xxx
	Miscellaneous receipts.....	56,958	xxx	xxx
	Contract work.....	2,206	xxx	xxx
	Resales.....	29,240	xxx	xxx
	Other miscellaneous receipts.....	25,512	xxx	xxx
Product class code	Small arms, 30mm and under, industry	Small arms, 30mm and under (SIC 1951)	Other industries	All industries
	Total shipments and receipts of the industry.....	79,107	xxx	xxx
19511	Primary products.....	69,611	16,426	86,037
19512	Machine guns, 30mm and under.....	69,611	16,426	86,037
19510	Small arms, 30mm and under (or 1.18 inches and under).....			
	Small arms 30mm and under, nsk.....			
	Secondary products.....	96,961	xxx	xxx
	Miscellaneous receipts.....	2,535	xxx	xxx
	Contract work.....	413	xxx	xxx
	Resales.....	724	xxx	xxx
	Other.....	1,398	xxx	xxx
Product class code	Small arms ammunition, 30mm and under, industry	Small arms ammunition, 30mm and under (SIC 1961)	Other industries	All industries
	Total shipments and receipts of the industry.....	167,446	xxx	xxx
19610	Small arms ammunition, 30mm and under.....	141,352	109,299	150,651
	Secondary products and miscellaneous receipts.....	26,094	xxx	xxx
	Contract work.....	8,497	xxx	xxx
	Other miscellaneous receipts including resales and secondary products.....	17,597	xxx	xxx

<sup>1</sup>Includes \$2,455 thousand shipped by Industry 3461, Metal Stampings.

<sup>2</sup>Includes shipments of more than \$2 million by Industry 3461, Metal Stampings, which are withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes shipments by the following industries which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3717, Motor Vehicles and Parts; and Industry 3729, Aircraft Equipment, NEC.

<sup>4</sup>Includes \$5 million shipped by Industry 2844, Toilet Preparations. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 2751, Printing: Letterpress; and Industry 3634, Electric Housewares and Fans.

<sup>5</sup>Includes product class 24995, Wood products, nec, which totaled more than \$2 million but is withheld to avoid disclosing individual company figures.

<sup>6</sup>Includes shipments of over \$2 million by the following industries; however, the exact values are withheld to avoid disclosing individual company figures: 3662, Radio, TV Communication Equipment; 3721, Aircraft; 3729, Aircraft Equipment, NEC.

<sup>7</sup>Includes the following product classes which total \$2 million or more each, but the exact values are withheld to avoid disclosing individual company figures: 27313, Technical, scientific, and professional books; 36794, Coils, transformers, reactors, and chokes for electronic applications; 37212, Complete civilian type aircraft; and 37214, Modifications, conversions and overhaul of previously accepted aircraft.

<sup>8</sup>Includes shipments of over \$2 million by the following industries; however, the exact values are withheld to avoid disclosing individual company figures: 1925, Guided Missiles, Complete; 3717, Motor Vehicles and Parts.

<sup>9</sup>Includes shipments of over \$2 million of product class 35227 Lawn mowers and parts; however, the exact values are withheld to avoid disclosing individual company figures.

<sup>10</sup>Includes shipments of over \$2 million by Industry 1922, Ammunition Loading; however, the exact value is withheld to avoid disclosing individual company figures.

Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954

Product code	Product	Value of shipments including interplant transfers (\$1,000)			
		1958		1954	
3992011	Dressed and dyed furs <sup>1</sup> .....		12,056		6,284
3993---	Signs and advertising displays, total.....		407,893		329,894
3993111	Luminous tube and bulb signs.....		99,855		82,123
39932--	Nonelectric signs and advertising displays.....		193,482		178,529
	Metal signs, by any application process (including point-of-sale signs, road signs, truck signs, highway and street markers, and all other metal signs):				
3993211	Porcelain enameled.....		17,448		11,320
3993219	All other metal signs.....		32,273		22,141
3993221	Screen processed signs (other than metal).....		13,423		17,514
3993231	Window, backbar, counter, and lobby cutouts and displays.....		39,011		36,642
3993298	All other signs and advertising displays (including sign letters).....		68,639		67,260
3993200	Nonelectric signs and advertising displays, nsk.....		22,688		23,652
3993311	Advertising novelties.....		64,361		42,180
3993000	Signs and advertising displays, nsk.....		50,195		27,062
3995011	Umbrellas, parasols, and canes.....		34,658		32,409
	Total shipments including interplant transfers				
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3999---	Miscellaneous products, nec, total.....	xxx	357,173	xxx	308,949
39991--	Chemical fire extinguishing equipment and parts.....	xxx	46,886	xxx	*44,545
	Hand extinguishers meeting the specifications of Underwriters' Laboratories and Factory Mutual Laboratories:				
3999111	Soda acid.....	125,058	2,036	*187,540	*2,684
3999112	Foam.....	25,856	403	*57,425	*1,054
3999113	Carbon-dioxide.....	384,817	10,118	*390,667	*8,849
3999115	Vaporizing liquid (carbon tetrachloride base).....	403,996	3,171	*1,085,167	*6,638
3999119	Other extinguishers meeting specifications of Underwriters' Laboratories and Factory Mutual Laboratories.....	324,770	8,651	203,788	6,509
3999129	All other hand extinguishers.....	174,647	1,615	1,067,858	2,195
	Other chemical fire extinguishing equipment and parts:				
3999151	Two-wheeled chemical fire engines.....	2,823	1,231	4,753	1,196
3999161	Fixed systems (excluding water sprinkler systems).....	xxx	2,280	xxx	8,114
3999171	Parts and attachments for chemical fire extinguishing equipment.....	xxx	11,904	xxx	6,481
3999100	Chemical fire extinguishing equipment and parts, nsk.....	xxx	5,477	xxx	825
39992--	Coin operated amusement machines.....	xxx	39,122	xxx	47,738
3999212	Pin ball machines, and bell type machines and consoles.....	52,844	24,322	74,242	29,957
3999298	Other amusement machines (including strength testing, skill games, and other arcade pieces).....	xxx	14,800	xxx	17,781
39993--	Other miscellaneous fabricated products.....	xxx	271,165	xxx	216,666
3999311	Beauty- and barber-shop furniture and equipment (including accessories such as pads and wraps).....	xxx	37,165	xxx	25,369
3999321	Hair work, switches, toupees, and wigs.....	xxx	15,351	xxx	13,432
3999341	Tobacco pipes and cigarette holders.....	xxx	9,145	xxx	10,548
3999361	Miscellaneous fabricated products, nec, including cigar and cigarette lighters (except precious metal).....	xxx	209,504	xxx	167,317
19110--	Guns, howitzers, mortars, and related equipment, over 30mm (or over 1.18 inches)...	xxx	( <sup>2</sup> )	xxx	(NA)
19210--	Artillery ammunition, over 30mm (or over 1.18 inches).....	xxx	*70,736	xxx	(NA)
19220--	Receipts for ammunition loading and assembly, over 30 mm (or over 1.18 inches).....	xxx	( <sup>2</sup> )	xxx	(NA)
1925---	Guided missiles, complete, total.....	xxx	1,917,392	xxx	(NA)
1925111	Guided missiles, complete (including value of work done on production missiles)...	xxx	931,547	xxx	(NA)
1925311	Research and development on guided missiles (complete).....	xxx	985,845	xxx	(NA)
19290--	Ammunition, nec.....	xxx	*62,295	xxx	(NA)
19310--	Tanks and tank components.....	xxx	210,752	xxx	(NA)
19410--	Sighting and fire control equipment.....	xxx	585,983	xxx	(NA)

See footnotes at end of table.



Table 6A.—Quantity and Value of Products Shipped by All Manufacturing Establishments,  
for the United States: 1958 and 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
1951---	Small arms, 30mm and under.....	xxx	86,037	xxx	56,449
1951232	Pistols and revolvers.....	489,340	18,969	284,304	9,809
	Rifles:				
1951252	Center fire, repeating.....	224,921	12,495	483,645	16,362
1951254	Rim fire, repeating.....	289,540	7,633		
1951256	Rim fire, single shot.....	163,239	1,639		
	Shot guns:				
	Single barrel:				
1951262	Repeating.....	382,945	17,072	569,229	21,681
1951263	Single shot.....	224,277	5,327		
1951264	Double barrel.....				
	Other small arms, 30mm and under including machine guns <sup>3</sup> :				
1951272	Shipments under U. S. military contract.....	xxx	21,853	xxx	(NA)
1951275	Shipments under other than U. S. military contract.....			xxx	8,597
1951281	Parts and attachments for small arms.....			xxx	(NA)
1951000	Small arms, 30mm and under, nsk.....	xxx	1,049	xxx	(NA)
1961---	Small arms ammunition, 30mm and under.....	xxx	150,651	xxx	(NA)
1961012	Shipped under U. S. military contract.....	xxx	55,643	xxx	(NA)
1961081	Shipments other than U. S. military contract.....	xxx	92,797	xxx	(NA)
1961000	Small arms ammunition, nec.....	xxx	2,211	xxx	(NA)
19990--	Ordnance and accessories, nec.....	xxx	<sup>2</sup> 581,758	xxx	(NA)

\*Revised. <sup>1</sup>Revised.

NA Not available.

<sup>1</sup>Represents the relatively small number of fur skins purchased, dyed or dressed, and sold by the reporting company. In addition, large numbers of fur skins were dyed or dressed on commission for others.<sup>2</sup>Value of shipments for codes 19110 and 19220 are included with 19990.<sup>3</sup>For 1954 the value of shipments of machine guns is not included.

## MANUFACTURES-INDUSTRY STATISTICS

Table 6B.—Value of Product Classes Shipped by All Manufacturing Establishments, by Divisions and States for 1958 and 1954, and United States Totals for Selected Years

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments		Product class, region, and State	Value of shipments	
	1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954		1958 <sup>1</sup>	1954
<u>Luminous tubing and bulb signs (39931):</u>			<u>Luminous tubing and bulb signs (39931)--Continued</u>			<u>Nonelectric signs and advertising displays (39932)--Continued</u>		
United States, total:								
1958.....	99,855		Mountain.....	4,868	4,894	East South Central.....	6,461	4,080
1957.....	88,914		Colorado.....	1,320	1,144	Kentucky.....	1,478	1,145
1956.....	99,641		Pacific.....	20,206	16,351	Tennessee.....	4,069	2,357
1955.....	93,234		Washington.....	1,616	2,843	West South Central.....	7,313	5,799
1954.....	82,123		Oregon.....	2,124	1,311	Oklahoma.....	2,339	1,829
1947.....	53,555		California.....	16,466	12,197	Texas.....	4,609	3,551
						Mountain.....	2,306	1,534
New England.....	4,739	2,975	<u>Nonelectric signs and advertising displays (39932):</u>			Pacific.....	13,370	11,139
Massachusetts.....	2,857	1,957	United States, total:			California.....	12,609	9,807
Connecticut.....	1,468	( <sup>2</sup> )	1958.....		193,482			
			1957.....		217,786	<u>Advertising novelties (39933):</u>		
Middle Atlantic.....	13,051	13,479	1956.....		229,614	United States, total:		
New York.....	7,039	6,377	1955.....		200,057	1958.....		64,361
New Jersey.....	2,398	3,689	1954.....		178,529	1954.....		42,180
Pennsylvania.....	3,614	3,413	1947.....		99,610	1947.....		25,011
East North Central.....	34,265	26,435		1958 <sup>1</sup>	1954			
Ohio.....	12,863	11,526	New England.....	6,332	4,365		1958 <sup>1</sup>	
Indiana.....	3,124	3,162	Massachusetts.....	3,832	2,611			
Illinois.....	9,386	6,643	Connecticut.....	1,397	( <sup>2</sup> )	Northeast.....		26,106
Michigan.....	3,075	2,068	Middle Atlantic.....	64,939	52,756	New York.....		15,218
Wisconsin.....	5,817	3,036	New York.....	41,621	37,030	New Jersey.....		5,281
			New Jersey.....	8,936	4,629			
West North Central.....	6,050	5,530	Pennsylvania.....	14,382	11,097	East North Central.....		20,582
Minnesota.....	1,944	2,450	East North Central.....	66,495	75,047	Ohio.....		5,490
Iowa.....	1,373	( <sup>2</sup> )	Ohio.....	16,492	22,486	Illinois.....		11,333
Missouri.....	1,243	1,434	Indiana.....	4,279	1,753	Wisconsin.....		3,438
			Illinois.....	29,873	36,878	West North Central.....		8,393
South Atlantic.....	8,436	4,557	Michigan.....	10,663	8,910	Missouri.....		2,540
Virginia.....	1,070	( <sup>2</sup> )	Wisconsin.....	5,188	5,020	South Atlantic.....		1,477
Georgia.....	1,321	( <sup>2</sup> )	West North Central.....	18,067	17,542	East South Central.....		1,235
Florida.....	3,292	1,574	Minnesota.....	6,741	6,821	West South Central.....		1,321
East South Central.....	2,195	2,568	Missouri.....	8,790	7,208	Texas.....		1,182
Tennessee.....	1,444	( <sup>2</sup> )	Kansas.....	1,074	( <sup>2</sup> )	West.....		5,247
West South Central.....	6,045	5,334	South Atlantic.....	8,199	6,267	California.....		5,050
Louisiana.....	1,267	( <sup>2</sup> )	Virginia.....	3,212	2,845			
Oklahoma.....	1,035	( <sup>2</sup> )	Florida.....	2,134	( <sup>2</sup> )			
Texas.....	3,529	3,735						

Note: The figures shown for 1955-1957 are sample estimates from the Annual Survey of Manufactures for these years. Since the estimates are based on a sample, they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 39933, Massachusetts, Minnesota, and Iowa.

<sup>2</sup>Shipments of less than \$1 million reported.



## MISCELLANEOUS MANUFACTURING INDUSTRIES - PART II

39E-19

Table 7—Materials Consumed, by Kind: 1958 and 1954

Code	Material	Unit of measure	1958 <sup>1</sup>					
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			INDUSTRY 1925—GUIDED MISSILES, COMPLETE		INDUSTRY 1951—SMALL ARMS, 30MM AND UNDER		INDUSTRY 1999—ORDNANCE AND ACCESSORIES, NEC <sup>2</sup>	
	Materials, parts, containers and supplies, total.....		xxx	979,754	xxx	18,070	xxx	7924,251
	Mill shapes and forms (except castings):							
	Carbon steel:							
331211	Bars and bar shapes.....	Short tons.....	3,035	1,762	6,072	1,466	45,293	7,209
331212	Sheet and strip.....	do.....	1,884	679	485	140	3,299	686
331213	Plates.....	do.....	2,755	699	60	17	12,078	2,272
331215	Structural shapes.....	do.....	2,115	534	xxx	xxx	485	103
331217	Wire and wire products.....	do.....			xxx	xxx	333	103
331219	All other carbon steel mill shapes and forms.....	do.....	2,220	1,609	129	431	3,257	1,054
	Alloy steel (except stainless):							
331221	Bars and bar shapes.....	do.....	1,645	1,449	1,712	637	5,209	1,861
331225	All other alloy steel mill shapes and forms.....	do.....	1,214	762	20	16	14,946	8,045
331231	Stainless steel mill shapes and forms.....	do.....	1,704	4,123	xxx	xxx	1,934	4,856
	Copper and copper-base alloy:							
335111	Bare wire for electrical conduction.....	1,000 lbs.....			xxx	xxx	35	31
363111	Insulated wire and cable.....	1,000 lbs. metal content.....	2,422	6,002	xxx	xxx	2,428	1,813
335119	All other copper and copper-base alloy mill shapes and forms (plate, sheet, tubing, bar, mechanical wire, etc.).....	1,000 lbs.....	1,071	742	66	20	4,355	2,276
	Aluminum and aluminum-base alloy mill shapes and forms:							
335257	Sheet, plate and foil.....	do.....	12,090	8,260	xxx	xxx	10,313	5,418
335259	All other aluminum mill shapes and forms (extruded shapes, tubing, wire, structural shapes, rod, bar, powder, etc.).....	do.....	4,102	3,995	199	234	5,920	4,273
	Scrap:							
941011	Iron and steel.....	Short tons.....	xxx	xxx	xxx	xxx	1,411	58
	Castings (rough and semifinished):							
332011	Iron (gray and malleable).....	do.....	xxx	xxx	305	186	6,467	1,440
332311	Steel.....	do.....	118	185	xxx	xxx	4,437	3,255
336121	Copper and copper-base alloy.....	1,000 lbs.....	xxx	xxx	xxx	xxx	63	39
336111	Aluminum and aluminum-base alloy.....	do.....	1,170	2,782	2	10	2,646	2,140
339111	Iron and steel forgings.....	Short tons.....	xxx	xxx	196	219	6,025	3,735
	Fractional horsepower electric motors (under 1 horsepower):							
361412	Timing motors, synchronous and subsynchronous.....	Thousands.....	18	223	xxx	xxx	52	2,525
361419	All other fractional horsepower electric motors.....	do.....	xxx	xxx	xxx	xxx	26	1,964
351911	Gasoline and other carburetor engines.....	do.....	xxx	xxx	xxx	xxx	xxx	5,170
359311	Ball and roller bearings.....	do.....	xxx	1,311	xxx	14	xxx	1,960
335937	Magnesium and magnesium-base alloys except powder.....	Short tons.....	xxx	xxx	xxx	xxx	1,049	1,136
970099	All other materials and components, parts, containers, and supplies consumed.....		xxx	786,837	xxx	14,331	xxx	7840,717
973000	Materials, parts and supplies, nsk.....		xxx	157,800	xxx	349	xxx	20,112

<sup>1</sup>Revised<sup>2</sup>Data for 1954 not available.<sup>3</sup>Includes data for the following industries: 1911, 1921, 1922, 1929, 1931, 1941, and 1999.

## MANUFACTURES-INDUSTRY STATISTICS

Table 8.—General Statistics for Manufacturing Establishments, Classified by Industry Specialization and Primary Product Class Specialization, for the United States: 1958

(This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are: (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishment; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.)

Industry or product class code	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
3993	SIGNS AND ADVERTISING DISPLAYS (entire industry).....	2,725	36,170	173,028	27,949	53,572	118,887	281,168	179,078	457,025	13,505
	Establishments with:										
	90% or more specialization.....	2,589	31,211	150,027	24,083	45,478	103,061	246,506	155,243	398,764	12,630
	75-89% specialization.....	45	1,588	6,718	1,266	2,577	4,676	10,177	7,107	17,197	( <sup>1</sup> )
39931	Luminous tubing and bulb signs (primary product class of estab.)..	1,014	9,851	51,722	7,518	14,183	37,276	81,053	47,248	126,115	3,979
	Establishments with:										
	90% or more specialization....	729	6,649	35,673	5,031	9,402	25,507	56,198	34,671	89,422	2,999
	75-89% specialization.....	128	1,293	6,557	1,020	1,920	4,856	9,937	5,618	15,247	581
39932	Nonelectric signs and advertising displays (primary product class of estab.).....	826	16,673	81,324	12,749	25,031	53,263	126,829	86,119	211,780	4,383
	Establishments with:										
	90% or more specialization....	639	11,775	57,806	9,059	17,457	37,490	90,800	60,468	150,232	3,297
	75-89% specialization.....	58	1,430	6,501	1,075	2,079	4,339	10,113	7,169	17,208	( <sup>1</sup> )
39933	Advertising novelties (primary product class of estab.).....	294	5,775	22,926	4,568	8,974	15,324	38,564	26,878	65,435	2,625
	Establishments with:										
	90% or more specialization....	259	4,362	16,868	3,446	6,650	11,195	29,959	20,120	50,108	2,251
	75-89% specialization.....	14	777	3,123	652	1,367	2,306	4,441	3,517	7,898	( <sup>1</sup> )
3999	MISCELLANEOUS PRODUCTS, NEC, (entire industry).....	1,259	27,285	109,053	21,890	42,116	76,299	192,313	174,792	358,076	7,313
	Establishments with:										
	90% or more specialization.....	1,129	20,540	78,826	16,675	31,293	55,919	142,892	142,715	278,065	5,737
	75-89% specialization.....	37	2,093	10,512	1,794	4,320	7,996	20,061	13,458	30,887	2,086
39991	Chemical fire extinguishing equipment and parts (primary product class of estab.).....	42	2,225	11,077	1,321	2,624	5,469	18,753	25,537	42,359	832
	Establishments with:										
	90% or more specialization....	36	1,430	6,886	892	1,706	3,648	11,209	20,428	29,441	( <sup>1</sup> )
39992	Coin operated amusement machines (primary product class of estab.)..	30	3,124	13,014	2,676	4,621	9,364	19,051	21,888	41,409	( <sup>1</sup> )
39993	Other miscellaneous fabricated products (primary product class of estab.).....	1,184	21,929	84,951	17,887	34,862	61,456	154,480	127,337	274,248	6,293
	Establishments with:										
	90% or more specialization....	1,053	16,017	59,095	13,134	25,020	43,133	95,851	100,472	208,088	5,090
	75-89% specialization.....	43	2,097	10,438	1,804	4,304	7,998	19,886	13,545	30,818	657
1911	GUNS, HOWITZERS, AND MORTARS (entire industry).....	5	251	1,970	124	297	819	2,942	3,919	6,892	( <sup>1</sup> )
1921	ARTILLERY AMMUNITION (entire industry).	25	4,028	20,358	2,727	5,405	12,593	26,811	31,018	58,587	836
1922	AMMUNITION LOADING (entire industry)...	6	1,189	6,624	767	1,570	4,013	8,985	203	9,042	(D)
1925	GUIDED MISSILES, COMPLETE (entire industry).....	26	108,431	788,414	60,894	129,208	370,703	<sup>2</sup> 1,153,021	<sup>2</sup> 1,053,689	<sup>3</sup> 2,206,710	46,137
	Establishments with:										
	90% or more specialization.....	13	47,734	370,733	30,169	62,761	186,930	454,394	426,933	723,856	21,508
19251	Guided missiles, complete (primary product class of estab.).....	13	42,429	280,352	23,692	50,812	133,323	439,039	326,914	737,350	11,273
	Establishments with:										
	90% or more specialization....	5	17,433	112,040	12,650	27,417	72,797	163,064	111,265	265,515	2,109
19253	Research and development on guided missiles (complete) (primary product class of estab.).....	13	66,002	508,062	37,202	78,396	237,380	713,982	726,775	1,469,360	34,864
1929	AMMUNITION, NEC (entire industry).....	19	6,114	32,086	3,670	7,264	17,659	<sup>r</sup> 51,231	<sup>r</sup> 21,146	<sup>r</sup> 70,816	5,351
1931	TANKS AND TANK COMPONENTS (entire industry).....	17	7,069	39,861	4,619	9,651	25,197	63,711	143,863	212,372	1,524
1941	SIGHTING AND FIRE CONTROL EQUIP. (entire industry).....	25	45,506	304,273	23,695	47,831	132,838	457,757	391,752	845,851	6,358
	Establishments with:										
	90% or more specialization.....	11	12,865	79,354	7,140	14,771	39,055	125,815	153,968	286,089	1,667
1951	SMALL ARMS, 30MM AND UNDER (entire industry).....	34	8,010	39,213	5,823	11,580	27,240	51,005	20,442	79,107	2,128
	Establishments with:										
	90% or more specialization.....	28	6,677	33,320	4,954	9,779	22,985	42,773	15,133	63,275	1,950
1961	SMALL ARMS AMMUNITION (entire industry)	24	9,049	44,215	5,682	11,307	26,033	82,733	75,672	167,446	4,166
	Establishments with:										
	90% or more specialization.....	19	6,705	34,244	5,064	10,053	23,454	75,390	51,717	132,773	(D)
1999	ORDNANCE AND ACCESSORIES, NEC (entire industry).....	<sup>r</sup> 47	<sup>r</sup> 15,297	<sup>r</sup> 92,808	<sup>r</sup> 10,078	<sup>r</sup> 20,957	<sup>r</sup> 55,580	<sup>r</sup> 162,190	<sup>r</sup> 400,966	<sup>r</sup> 564,479	<sup>r</sup> 10,756

<sup>r</sup>Revised<sup>1</sup>Less than \$500 thousand.<sup>2</sup>See footnote 14 of table 1.<sup>3</sup>Represents value of work done.



## SPECIAL REPORT





# Manufacturing Activity in Government Establishments

This special report presents data for manufacturing activities of selected Government establishments in continental United States. These data are not included in other 1958 Census of Manufactures reports, which cover privately operated establishments only. Manufacturing establishments owned by the Federal Government and operated by private companies either for the Government or for their own account are included with privately operated establishments. Three types of establishments are covered in this report: (1) manufacturing facilities owned and operated by the Department of Defense; (2) prison industries (Federal, District of Columbia, and State); and (3) manufacturing facilities owned and operated by other United States Government agencies. The data were prepared with the cooperation of the Department of Defense, the Department of Justice, the Department of Interior, and the District of Columbia and State prison systems. Comparable data for 1954, when available, are also shown.

## Manufacturing Facilities Owned by the United States Government and Operated by the Department of Defense

Data are shown in tables 1-3 for manufacturing facilities owned by the United States Government and operated by the Department of Defense. Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing.

This report covers all manufacturing installations operated by the Department of Defense which produce goods or perform manufacturing services for the general supply system of the Department of Defense. It does not include activities of Defense Department installations which serve primarily or exclusively their own installations (e.g., bakeries, some machine shops, and box plants).

Statistics are shown in tables 1 and 2 for employment, man-hours, payrolls, and value added by manufacture. Military personnel

are not included in any of the employment, payroll or man-hours data. These data represent only nonmilitary (wage board and graded) employees engaged in the manufacturing activities at the plant. Value added by manufacture represents the total value of shipments (including the value of manufacturing services) less the cost of materials, parts, supplies, etc., actually consumed or put into production during the year, whether purchased during the year, withdrawn from inventories, or received from other Government agencies. For a few establishments, value added by manufacture was partly estimated by the Bureau of the Census after consultation with the Department of Defense, on the basis of related data reported by the establishment.

The value of shipments reflects all of the direct costs incurred by the establishments in manufacturing operations such as labor, raw materials, components, parts, supplies, overhead, etc. For shipyards, value of shipments represents the value of new construction and repair work performed during the year whether or not the vessels were completed by the year end. Generally, individual product statistics are shown in table 3 only for those items with a civilian counterpart. Furthermore, product detail on ordnance and related items is withheld for security reasons on advice of the Bureau of the Budget.

## Prison Industries (Federal, District of Columbia and State)

During 1958 manufactured products valued at \$97,307 thousand were produced in Federal, District of Columbia, and State prisons in the United States. The comparable 1954 figure of \$69,184 thousand also includes the value of products produced for use within the institutions as well as for products transferred to other Governmental agencies or for sale in the open market. These data, shown in detail in table 4, cover the activities of the Federal Prison Industries, Inc., as well as those of the prison industries of each State and the District of Columbia.

Manufacturing Facilities Owned and Operated  
by Other United States Government Agencies

Manufacturing operations of the Bureau of Mines, U. S. Department of Interior, are not included in tables 1 through 4. That agency is the sole producer of helium in the United States. During 1958, it operated 4 plants from which 352 million cubic feet of helium valued at \$5,741 thousand were shipped. The average number of employees totaled 448 of which 300 were production and related workers, and the total wages and salaries paid amounted to \$1,980 thousand. Comparable figures for other years as well as additional detail for

production, shipments, consumption, prices, reserves and activities relating to conservation and technology appear in the Minerals Yearbook, a publication of the Bureau of Mines.

Excluded from this report are the manufacturing activities of the Government Printing Office and the Tennessee Valley Authority. The operations of these agencies are covered in their Annual Reports. Also excluded are the minor manufacturing activities of such other Government agencies as the Post Office Department and the General Services Administration. The manufacturing activities of these latter agencies have no counterparts in private industry.



Table 1.--Selected General Statistics for Manufacturing Facilities Operated by the Department of Defense, by Divisions and States: 1958 and 1954

Geographic division and State	1958						1954	
	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture, unadjusted (\$1,000)	All employees, number	Value added by manufacture, unadjusted (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
UNITED STATES.....	125,440	717,130	93,871	173,833	531,587	799,239	172,884	919,772
New England.....	20,025	113,295	16,198	28,646	91,118	126,254	26,283	126,766
New Hampshire.....	7,390	41,486	5,865	10,219	32,181	42,004	26,283	35,415
Massachusetts.....	12,635	71,809	10,333	18,427	58,937	84,250	18,376	91,351
Middle Atlantic.....	31,252	171,285	24,947	46,783	135,731	199,297	42,154	225,618
New York.....	15,040	87,009	11,286	20,394	65,285	101,297	19,396	112,641
New Jersey.....	1,915	10,595	1,435	2,508	7,940	18,657	3,839	16,036
Pennsylvania.....	14,297	73,681	12,226	23,881	62,506	79,343	18,919	96,941
East North Central.....	4,219	23,607	2,580	4,700	14,796	32,075	12,642	71,462
Indiana.....	185	895	161	337	787	1,983	3,863	23,967
Illinois.....	4,034	22,712	2,419	4,363	14,009	30,092	8,746	47,095
West North Central.....	...	...	...	...	...	...	2,653	11,700
South Atlantic.....	26,555	143,624	19,225	34,245	105,621	151,778	33,972	171,487
Maryland.....	1,263	6,824	875	1,559	4,506	8,199	3,366	14,929
District of Columbia.....	5,266	29,002	2,320	4,194	14,487	29,750	8,732	52,500
Virginia.....	11,880	65,361	9,647	17,240	52,685	69,316	13,474	63,310
South Carolina.....	7,075	37,146	5,534	9,732	29,966	37,222	6,344	31,500
Georgia.....	702	3,338	509	924	2,179	3,338	2,056	9,248
Florida.....	369	1,953	340	596	1,798	3,953	...	...
East South Central.....	7,192	52,047	2,828	5,429	17,312	52,882	2,537	15,250
Kentucky.....	1,737	9,890	860	1,588	5,143	10,382	1,474	8,850
Alabama.....	5,455	42,157	1,968	3,841	12,169	42,500	1,063	6,400
West South Central.....	844	3,978	640	1,305	2,962	5,324	5,874	30,523
Arkansas.....	191	1,023	150	310	835	1,175	2,963	14,750
Oklahoma.....	653	2,955	490	995	2,127	4,149	2,911	19,773
Mountain.....	1,251	6,500	277	550	1,480	6,830	2,747	15,910
Colorado.....	78	449	72	130	414	480	2,051	12,210
Nevada.....	1,173	6,051	205	420	1,066	6,350	295	1,600
Pacific.....	34,102	202,794	27,176	52,175	162,567	224,799	44,022	251,056
Washington.....	10,942	63,373	8,731	15,886	51,167	74,018	14,616	79,571
California.....	23,160	139,421	18,445	36,289	111,400	150,781	29,406	171,485

Table 2.--Selected General Statistics for Manufacturing Facilities Operated by the Department of Defense, by Type of Activity: 1958 and 1954

SIC code	Major activity	1958						1954					
		All employees (wage board and graded)		Production workers (wage board)			Value added by manufac- ture, un- adjusted (\$1,000)	All employees (wage board and graded)		Production workers (wage board)			Value added by manufac- ture, un- adjusted (\$1,000)
		Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)		Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)	
	All manufacturing facilities, total <sup>1</sup> .....	125,440	717,130	93,871	173,833	531,587	799,239	172,884	752,798	138,532	249,545	603,394	919,772
2311	Men's suits, coats, and other clothing.....	2,513	9,515	2,212	4,308	7,937	10,501	2,429	7,671	2,179	3,716	6,350	9,385
3662	Electronic equipment.....	1,915	10,595	1,435	2,508	7,940	18,657	...	...	...	...	...	...
3731 3732	Ship and boat building and repairing.....	91,083	522,649	73,174	135,278	420,944	571,127	109,754	496,031	89,577	156,489	408,631	579,947
3842	Personal safety devices.....	103	636	86	165	526	699	...	...	...	...	...	...
1900	Ordnance.....	29,826	173,735	16,964	31,574	94,240	198,255	56,884	233,966	43,474	83,452	175,881	312,415
-	All other manufacturing <sup>1</sup> .....	...	...	...	...	...	...	3,817	15,130	3,302	5,888	12,532	18,025

<sup>1</sup>For 1954 includes facilities classified in the following industries: coffee roasting; cordage and twine; canvas and other fabricated textile products; explosives; paints, varnishes, lacquers, japans, and enamels; iron and steel forgings; and lighting fixtures.

## MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

Table 3.--Quantity and Value of Products Shipped by Manufacturing Facilities  
Operated by the Department of Defense: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2298111	Abaca rope and cable:					
2298115	3/4 inch diameter and larger.....	1,000 lbs.	2,427	772	3,954	1,118
	Less than 3/4 inch diameter.....	...do....	200	64	1,039	298
2298217	Nylon rope.....	...do....	145	211	...	...
	Men's military uniform apparel:					
2311175	Uniform suits.....	Number....	45,019	1,493	170,570	2,961
2311275	Overcoats.....	...do....	144,872	1,489	21,617	283
2311375	Jackets.....	...do....	179,176	3,492	318,218	4,735
2321412	Shirts.....	Dozen....	99,883	2,898	93,400	3,492
2327151	Trousers.....	Number....	93,526	2,501	80,600	4,084
2352217	Hats and caps.....	Dozen....	50,988	892	(NA)	( <sup>1</sup> )
2328212	Men's work clothing.....	Number....	27,619	1,279	66,755	2,333
2329112	Men's heavy outerwear coats and jackets.....	...do....	3,021	396	(NA)	( <sup>1</sup> )
2300000	Other men's apparel, including knit outerwear.....	...	xxx	117	xxx	13,214
2330000	Women's military uniform apparel.....	...	xxx	1,365	...	...
2390000	Other fabricated textile products, such as canvas bags, flags, etc.....	...	xxx	570	xxx	4,530
2599098	Metal furniture.....	...	xxx	658	...	...
2813210	Acetylene and oxygen.....	...	xxx	155	...	...
2851218	Paints, marine:					
2851130	Ship bottom.....	1,000 gals.	106	421	628	1,406
	Other.....	...do....	500	1,500	3,244	5,860
2892000	Explosives.....	...	xxx	3,182	xxx	25,693
2899329	Pyrotechnics.....	...	xxx	792	...	...
3312201	Steel ingot.....	...	xxx	1,174	...	...
3321000	Gray iron castings <sup>2</sup> .....	...	xxx	1,200	xxx	572
3391000	Iron and steel forgings.....	...	xxx	301	xxx	209
3479031	Galvanizing.....	...	xxx	150	...	...
3662600	Electronic military equipment.....	...	xxx	19,182	...	...
3731000	Shipbuilding and repairing.....	...	xxx	671,650	xxx	780,042
3732000	Boatbuilding and repairing.....	...	xxx	45,949	xxx	11,386
3842311	Respiratory protection equipment.....	...	xxx	496	...	...
3842351	Protective clothing.....	...	xxx	410	xxx	( <sup>1</sup> )
	All other products <sup>3</sup> .....	...	...	...	xxx	64,271

NA Not available.

xxx Not applicable

<sup>1</sup>For 1954, included with Other men's apparel, including knit outerwear.<sup>2</sup>Excludes castings produced and consumed at the same facility.<sup>3</sup>For 1954 includes the following products: Roasted coffee, ground, \$53,086 thousand; Agave rope and cable 3/4 inch in diameter and larger, \$1,118 thousand; Lighting fixtures, \$1,282 thousand; Other transportation equipment, \$5,323 thousand; and Optical instruments and lenses, \$4,572 thousand.



Table 4.--Quantity and Value of Shipments of Products Manufactured at Federal, District of Columbia, and State Prisons: 1958 and 1954

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
	TOTAL.....		xxx	97,307	xxx	69,184
2010000	Meat and meat products.....		xxx	5,893	xxx	1,389
2020000	Dairy products.....		xxx	1,807	xxx	(NA)
2015000	Canned foods.....		xxx	4,608	xxx	3,689
2041000	Flour.....		xxx	276	xxx	304
2042000	Prepared animal feeds.....		xxx	1,129	xxx	380
2099000	Coffee and tea.....		xxx	1,171	xxx	1,261
2131000	Tobacco, chewing and smoking.....		xxx	1,067	xxx	800
2211055	Blankets.....		xxx	1,506	xxx	1,419
2211000	Woven fabrics.....	1,000 lbs.	14,682	11,277	10,849	7,864
2293000	Cordage and twine.....	...do....	15,334	2,707	16,328	3,038
2324000	Apparel.....		xxx	12,364	xxx	9,547
2321000	Sheets and pillow cases.....		xxx	948	xxx	773
2323000	Canvas specialties.....		xxx	4,309	xxx	922
2329000	Miscellaneous textile products.....		xxx	270	xxx	121
2515200	Mattresses.....		xxx	3,369	xxx	1,736
2531000	Wooden furniture.....		xxx	5,364	xxx	4,544
2751000	Printing and binding.....		xxx	2,317	xxx	1,263
2841000	Soaps.....		xxx	2,068	xxx	1,174
2842000	Paints.....		xxx	2,006	xxx	1,527
3141000	Shoes.....	1,000 prs.	1,030	5,674	1,173	5,746
3272000	Concrete products.....		xxx	264	xxx	248
3321000	Castings.....		xxx	300	xxx	456
3461898	License plates.....	1,000.....	94,004	10,899	81,378	7,932
3461898	Highway and road signs.....	...do....	1,340	3,693	1,204	2,532
3522000	Farm equipment.....		xxx	913	xxx	643
3499000	Miscellaneous metal products.....		xxx	6,532	xxx	3,265
3599000						
3981000	Brooms and brushes.....		xxx	4,178	xxx	2,741
9000000	Miscellaneous products.....		xxx	398	xxx	13,870

Note: Excludes agricultural products, road building, and other nonmanufacturing activities.

NA Not available.

xxx Not applicable.

<sup>1</sup>Includes the values reported separately in 1954, but for which separate data are not available in 1958, for the following products: Yarns, \$836 thousand; knit goods, \$861 thousand; flax, \$121 thousand; lumber, \$152 thousand; hospital beds, \$225 thousand; paper products, \$293 thousand; brick, \$954 thousand.





## APPENDIXES





# APPENDIX A.—NOTES ON COMPARABILITY OF 1954 AND 1958 DATA FOR SELECTED INDUSTRIES AND INDUSTRY GROUPS

## Part 1.—Qualifications of the Comparability of 1954 and 1958 Statistics Shown in Industry Summary Tables

(This appendix is intended for use mainly with industry summary tables showing 1954 and 1958 data. Appendixes B and C should also be consulted for this purpose. Described below are elements of noncomparability between the 1954 and 1958 data shown in summary tables for industries and industry groups whose definitions were revised by the new (1957) Standard Industrial Classification, but the revisions were relatively minor. Negligible revisions in industry definitions which did not affect comparability are not listed here. Also omitted are instances where an old SIC industry was split into two or more new industries, or where the only change was the merger of two or more old industries into one new industry. (See Part 2 for a list of such industry splits and consolidations and for industries with the same definition but a different code number under the new SIC.)

Industries 2361 and 2369 illustrate the meaning of this Appendix: the new SIC classifies establishments primarily producing girls' and children's knit outerwear shirts in 2361 and this product was classified in 2369 under the old SIC. Therefore, they are included in the 1954 data for 2369 but in 1958 data for Industry 2361. 1958 employment for these establishments in ALL STATES was 1,438. This appendix shows, for this and other similar cases, the noncomparabilities of this type and the degree of such noncomparability. When the degree of noncomparability was substantial, 1954 figures were not shown in industry summary tables.

These qualifications of the 1954 data apply only to the specific codes next to which they appear. For example, the 1954 total for Major Group 20 excludes establishments primarily producing fats and oils because they were classified in Major Group 28 under the old SIC. However, 1954 data for the individual (4-digit) Fats and Oils Industries are shown in industry summary tables under their new Major Group 20 codes (2091 through 2095) because their definitions were not revised by the new SIC except in one case where two old industries were combined into one new industry)

1954 data include but 1958 exclude establishments				1954 data exclude but 1958 data include establishments			
SIC code	Primarily engaged in manufacture of--	For 1958, such establishments are included in the specified new SIC industry	1958 employment for these establishments in ALL States	SIC code	Primarily engaged in manufacture of--	For 1954, such establishments are included in the specified old SIC industry	1958 employment for these establishments in ALL States
20	Synthetic sausage casings.....	30	( <sup>1</sup> )	20	Fats and oils.....	28	32,841
201	Synthetic sausage casings.....	307	( <sup>1</sup> )	201	Canned poultry products.....	203	1,944
2013	Synthetic sausage casings.....	3079	( <sup>1</sup> )		Eggs, liquid, dried, or frozen.....	209	4,490
2026 <sup>2</sup>				2026 <sup>2</sup>	Cottage cheese.....	2022	1,854
					Aerated cream, plastic cream, buttermilk, other fermented milk, and flavored milk drinks.....	2025	789
203	Canned poultry products.....	201	1,944	203	Frozen prepared foods such as frozen fruit pies, meat pies, baked goods, complete dinners, etc.; mincemeat.....	209	14,158
22 <sup>3</sup>	Hats, fur-felt, wool-felt, straw; hatter's fur.....	23	10,029	22 <sup>3</sup>	Shrinking and sponging of cloth.....	23	1,723
2231				2231	Shrinking and sponging of cloth.....	2399	1,723
23	Shrinking and sponging of cloth.....	22	1,723	23	Hats, fur-felt, wool-felt, straw; hatter's fur.....	22	10,029
					Parachutes.....	37	1,454
232	Cloth hats and caps.....	235	7,672				
	Hat and cap materials.....	239	623				
2361				2361	Girls' and children's knit outerwear shirts.....	2369	1,438
2369	Girls' and children's knit outerwear shirts.....	2361	1,438				
239	Shrinking and sponging of cloth.....	2231	1,723	239	Hatter's fur.....	2284	612
					Suit and coat findings.....	2312	2,420
					Hat and cap materials.....	2326	623
					Parachutes.....	3729	1,454
242	Veneer.....	243	13,103	242	Hardwood dimension.....	249	3,594
2432	Particle board.....	2499	1,594				
244	Rattan and willow ware products, except furniture.....	249	1,246				
25	Wood window and door screens.....	24	1,200				
	Metal window and door screens; metal weatherstrip.....	34	3,403				
	Laboratory and hospital furniture, except beds.....	38	5,184				
264	Printed playing cards and tags.....	275	3,792	264	Sanitary napkins and tampons.....	38	3,245
265				265			
2641				2641	Laminated or coated wrappers, except waxed (rolls and sheets).....	2699	2,257
2651	Vulcanized fiber boxes.....	2655	358	2651	Corrugated paperboard in sheets and rolls, pallets, and other packaging accessories.	2699	1,651
2652				2652			
2653				2653			

See footnotes at end of table.

# APPENDIX A--NOTES ON COMPARABILITY OF 1954 AND 1958 DATA FOR SELECTED INDUSTRIES AND INDUSTRY GROUPS

## Part 1--Qualifications of the Comparability of 1954 and 1958 Statistics Shown in Industry Summary Tables--Continued

1954 data include but 1958 exclude establishments				1954 data exclude but 1958 data include establishments			
SIC code	Primarily engaged in manufacture of--	For 1958, such establishments are included in the specified new SIC industry	1958 employment for these establishments in ALL States	SIC code	Primarily engaged in manufacture of--	For 1954, such establishments are included in the specified old SIC industry	1958 employment for these establishments in ALL States
2655				2655	Vulcanized fiber boxes.....	2671	358
275\				275\	Printed playing cards and tags.....	269	3,792
276\				276\	Sales books.....	278	2,199
28	Fats and oils.....	20	32,481	28	Fireworks and pyrotechnics.....	39	1,628
29 <sup>4</sup>							
30 <sup>5</sup>				30 <sup>5</sup>	Synthetic sausage casings.....	20	( <sup>1</sup> )
3011				3011	Tire retreading materials (camelback), tire repair materials, tire flaps, and tiring.....	3099	2,149
3069	Tire retreading materials (camelback), tire repair materials, tire flaps, and tiring... Factory rebuilt or retreaded tires.....	3011 67534	2,149 (NA)				
3079				3079	Synthetic sausage casings.....	201	( <sup>1</sup> )
31				31	Jewelry and instrument cases.....	39	6,214
3161	Men's travel kits.....	3172	383	3161	Musical instrument cases.....	3986	474
317	Musical instrument cases.....	3161	474	317	Men's travel kits.....	3161	383
3172	Musical instrument cases.....	3161	474	3172	Men's travel kits.....	3161	383
33 <sup>7</sup>				33 <sup>7</sup>	Plain aluminum foil.....	34	4,504
3312	Seamless pipe from purchased materials....	3317	1,439				
3317				3317	Seamless pipe from purchased materials....	3312	1,439
331\				331\			
339\	Nonferrous wire and cable.....	335	38,425	339\	Nails and spikes.....	348	3,445
34 <sup>8</sup>	Plain aluminum foil.....	33	4,504	34 <sup>8</sup>	Metal window and door screens; metal weatherstrip.....	25	3,403
	Commercial cooking and food warming equipment, except electric.....	35	2,838		Heat exchangers and steam condensers.....	35	8,360
	Household ovens and ranges, except electric.....	36	12,810				
	Household water heaters, except electric..	36	8,729				
344				344	Metal windows and door screens; metal weatherstrip.....	256	3,403
					Heat exchangers and steam condensers.....	356	8,360
35 <sup>9</sup>	Automobile, truck, and bus bearings.....	37	4,994	35 <sup>9</sup>	Commercial cooking and food warming equipment, except electric.....	34	2,838
36\	Aircraft and related engine and power take-off gears.....	37	1,935	36\	Household ovens and ranges, except electric.....	34	12,810
	Rebuilt motor vehicle engines and parts, except carburetors.....	37	5,797		Household water heaters, except electric..	34	8,729
	Revolution counters; laboratory scales....	38	2,113		Soda fountain and bar equipment.....	39	976
	Heat exchangers and steam condensers.....	34	8,360		Machine shops engaged exclusively in repair work.....	1076	(NA)
	Pinball and other amusement machines.....	39	3,100				
	Electrical hearing aids.....	38	1,984				
3571	Revolution counters.....	3821	1,727				
3576	Laboratory scales.....	3811	386				
3599	Rebuilt motor vehicle engines and parts, except carburetors.....	3717	5,797	3599	Machine shops engaged exclusively in repair work.....	107699	(NA)
3635	Industrial vacuum cleaners.....	3584	432				
369	Electrical hearing aids.....	384	1,984	364	Connectors for electronic application.....	366	3,979
371	Automobile trailers.....	379	20,734	371	Automobile, truck, and bus bearings.....	356	4,994
					Rebuilt motor vehicle engines and parts, except carburetors.....	359	5,797
3717				3717	Automobile, truck, and bus bearings.....	3566	4,994
					Rebuilt motor vehicle engines and parts, except carburetors.....	3599	5,797
372 <sup>11</sup>	Parachutes.....	239	1,454	372 <sup>11</sup>	Aircraft and related engine and power take-off gears.....	356	1,935
3721 <sup>11</sup>							

See footnotes at end of table.



# APPENDIX A.--NOTES ON COMARABILITY OF 1954 AND 1958 DATA FOR SELECTED INDUSTRIES AND INDUSTRY GROUPS

A-3

## Part 1.--Qualifications of the Comparability of 1954 and 1958 Statistics Shown in Industry Summary Tables--Continued

1954 data include but 1958 exclude establishments				1954 data exclude but 1958 data include establishments			
SIC code	Primarily engaged in manufacture of--	For 1958, such establishments are included in the specified new SIC industry	1958 employment for these establishments in ALL States	SIC code	Primarily engaged in manufacture of--	For 1954, such establishments are included in the specified old SIC industry	1958 employment for these establishments in ALL States
38	Sanitary napkins and tampons.....	26	3,245	38	Laboratory and hospital furniture, except beds.....	25	5,184
3821 }				3821 }	Revolution counters; laboratory scales....	35	2,113
3822 }				3822 }	Electrical hearing aids.....	36	1,984
39 <sup>12</sup> }	Cork products.....	24	907	39 <sup>12</sup> }	Revolution counters.....	3571	1,727
19 }	Fireworks and pyrotechnics.....	28	1,628	19 }	Pinball and other amusement machines.....	35	3,100
	Jewelry and instrument cases.....	31	6,214				
	Soda fountain and bar equipment.....	35	976				
398 }	Cork products.....	249	907	398 }	Pinball and other amusement machines.....	357	3,100
399 }	Fireworks and pyrotechnics.....	289	1,628	399 }	Hard-surface floor coverings.....	227	7,999
19 }	Jewelry and instrument cases.....	{ 316 }	6,214	19 }			
	Soda fountain and bar equipment.....	317					
		358	976				

NA Not available.

<sup>1</sup>2,500 to 4,999 employees. The exact figure is withheld to avoid disclosure of information for individual companies.

<sup>2</sup>The comparability of the figures for 1954 and 1958 is affected by differences in the coverage of fluid milk bottling, and, therefore, caution should be observed in evaluating the industry growth between the two years. For further explanation, see 1958 Census of Manufactures Industry Report, MC58(2)-20B, pages 2 and 3.

<sup>3</sup>The 1954 total for Major Group 22 has been adjusted to exclude old SIC Industry 2274, "Hard Surfaced Floor Coverings."

<sup>4</sup>The 1954 total for Major Group 29 has been adjusted to exclude old SIC Industries 2931, "Beehive Coke Ovens;" and 2932, "Byproduct Coke Ovens."

<sup>5</sup>The 1954 total for Major Group 30 has been adjusted to include old SIC Industry 3971, "Plastic Products, NEC."

<sup>6</sup>Industry 7534 is a Service Industry, "Tire Repair Shops."

<sup>7</sup>The 1954 total for Major Group 33 has been adjusted to include old SIC Industries 2931, "Beehive Coke Ovens;" 2932, "Byproduct Coke Ovens;" 3481, "Nails and Spikes;" and 3631, "Insulated Wire and Cable."

<sup>8</sup>The 1954 total for Major Group 34 has been adjusted to include old SIC Industries 3568, "Mechanical Stokers;" 3591, "Valves and Fittings, Except Plumbing;" and 3592, "Fabricated Pipe and Fittings." It has also been adjusted to exclude old SIC Industries 3471, "Lighting Fixtures" and 3481, "Nails and Spikes."

<sup>9</sup>The combined total for Major Groups 35 and 36 has been adjusted to include old SIC Industry 3471, "Lighting Fixtures" and to exclude old SIC Industries 3568, "Mechanical Stokers;" 3591, "Valves and Fittings, Except Plumbing;" 3592, "Fabricated Pipe and Fittings;" and 3631, "Insulated Wire and Cable."

<sup>10</sup>Industry 7699 is a Service Industry, "Machine Shop Repairs."

<sup>11</sup>Although the definition of Industry 3721 is the same under both the old and new SIC, comparability of the 1958 and 1954 figures may be affected by a difference in the method of assigning establishments to this industry. In 1958, an establishment manufacturing complete aircraft was classified in Industry 3721 if its value of work done on aircraft exceeded its value of shipments of any other single industry's products. In 1954, any establishment manufacturing at least one complete aircraft was classified in Industry 3721.

<sup>12</sup>The combined 1954 total for Major Groups 19 and 39 has been adjusted to include old SIC Industry 2274, "Hard Surfaced Floor Coverings" and to exclude old SIC Industry 3971, "Plastic Products, NEC."

# APPENDIX A.--NOTES ON COMPARABILITY OF 1954 AND 1958 DATA FOR SELECTED INDUSTRIES AND INDUSTRY GROUPS

## Part 2.--New SIC - Old SIC Code Conversions for Selected Industries

(An industry is listed below if 1954 data are comparable to 1958 data but in addition:

- a) The industry has the same definition but a different code number under the new SIC; or
- b) An old SIC industry was split into two or more whole industries under the new SIC; or
- c) Two or more old industries were merged into one industry under the new SIC

Also shown are combinations of industry groups which were made to obtain substantially comparable 1954 data)

New SIC code	Comparable old SIC code	New SIC code	Comparable old SIC code	New SIC code	Comparable old SIC code	New SIC code	Comparable old SIC code	New SIC code	Comparable old SIC code
2031	{ 2031 2032	2381	{ 2381 2382	2789	{ 2781 2789	3317 <sup>1</sup>	3393	3537	3565
2046	2094							3562	3593
2086	2081	2432 <sup>1</sup>	{ 2422 2432	2813	2896	3356	3359	3613 } 3622 }	3616
2087	2095			2814	2821	3361 3362 3369 }	3361	3621	3614
2091	2881	2591	{ 2562 2563	2815	2822			3623	3617
2092	2883					3431 3432 }	3431	3624	3612
		2611 } 2621 } 2631 } 2661 }	261	2819	{ 2811 2819	3441 3449 }	3441	3633	3581
2093	{ 2882 2884			2822	2824			3635 <sup>1</sup>	3584
2094	2886	2642	2651	2823 } 2824 }	2825	3451	3495	3636	3583
2095	2889	2643	2661	2892	2826	3452	3494	3641	3651
		2644	2693						
2096	{ 2092 2093	2645	2691	2893	2891	3461	{ 3461 3463 3467 }	365 } 366 } 367 }	366
2211	2233	2646	2694	3069 <sup>1</sup>	3099	3471	3468	3652	3663
2221	2234	2651 } 2652 } 2653 }	2671	3079 <sup>1</sup>	3971				
2231 <sup>1</sup>	{ 2213 2216	2655 <sup>1</sup>	2674	3151	{ 3151 3152	3479	{ 3465 3466 3467 }	369 <sup>1</sup>	{ 364 369 }
						346 } 347 }	346	3694	3641
2259	{ 2255 2259			3172 <sup>1</sup>	{ 3172 3986				
		264 } <sup>1</sup> 265 }	{ 264 265 266 267 269 }	3269	{ 3265 3269	3481	3489	379	{ 3716 3799 }
2261 } 2262 } 2269 }	2261					3494	3591	3821 } <sup>1</sup> 3822 }	3821
				3271 } 3272 }	3271	3498	3592		
2284	2223	275 } <sup>1</sup> 276 }	{ 275 276 2792 }	3275	3272	3511 } 3519 }	351	3931	{ 3931 3932 3933 3939 }
2352	{ 2281 2282 2283 2325	2753	2792	331 } <sup>1</sup> 339 }	{ 293 331 339 }	3533	3532	3952	{ 3952 3954 }
						3534	3562		

<sup>1</sup>Also see Part 1 for description of additional minor revision in definition introduced by the new SIC.



## APPENDIX B -INDUSTRY DESCRIPTIONS

Appendix B, which is included in Volume I, Summary Statistics, and Volume III, Area Statistics, has been omitted from this volume. The information contained in the appendix includes the industry description and the primary product coverage and specialization ratios for each industry. Similar but more extensive information of this type is contained elsewhere in this volume: the industry description in the text preceding the tables for each industry, and the ratios in Table 5A for each industry.





## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW STANDARD INDUSTRIAL CLASSIFICATION COMPARED WITH THE OLD SIC

### A. "Bridge" between the old and new Standard Industrial Classification

The 1958 Census of Manufactures covered all establishments primarily engaged in manufacturing as defined in the revised edition of the *Standard Industrial Classification Manual* issued by the Bureau of the Budget in 1957. In this revision, extensive modifications of industry definitions were made in some parts of the manufacturing sector. Each establishment report processed in the 1958 Census of Manufactures was classified and tabulated first on the basis of the old SIC industry definitions and then on the basis of the new SIC definitions. The preliminary reports previously issued were tabulated on the old SIC. The final reports of the 1958 Census and the bound volumes contain statistics tabulated according to the new SIC. It should be noted that establishments primarily engaged in activities that have been added to the scope of manufacturing by the new SIC are included in both the old SIC and new SIC tabulations (See below Section B, "Changes in the scope of manufacturing made by the 1957 Standard Industrial Classification").

This appendix provides a "bridge" between the two classification systems by showing how the new SIC industries are related to the old SIC industries. Part 1 gives the derivation of each new SIC 4-digit industry from the old SIC industries in terms of 1958 data. Part 2 is the reverse of Part 1. It shows how each old SIC industry was distributed among the new SIC industries. Additions to the scope of manufacturing, which are listed in Section B below, are included in Part 2 as old SIC industries even though they represent revisions introduced by the new SIC. Additional information on the nature and effects of revisions in industry definitions resulting from the adoption of the new SIC is provided in Section 5 of the Introduction, in the individual industry reports of Volume II, and in Appendix B, "Industry Descriptions," contained in Volumes I and III.

Part 1 provides the following 1958 data for each new SIC industry: (a) total number of establishments, establishments with more than 20 employees, all employees, and adjusted value added by manufacture, and (b) the contribu-

tion of the various old SIC industries to these totals. For example, new Industry 2015, Poultry dressing plants, has a total of 62,389 employees which was built up as follows: 55,635 were previously classified in old Industry 2015; 1,944 were in old Industry 2033 and were reassigned as a result of the transfer of canned poultry plants; 4,490 came from old Industry 2099 because of the transfer of liquid, dried and frozen egg plants; and 320 were classified in various other industries. Part 2 shows the same statistics on the disposition of each old industry. Thus, the totals for old Industry 2015 are 1,131 plants and 55,635 employees, all of which remained in the industry under the new SIC definition; that is, they were assigned to new Industry 2015.

### B. Changes in the scope of manufacturing made by the 1957 Standard Industrial Classification

A number of revisions in the scope of manufacturing were introduced by the 1957 edition of the SIC. Several of these changes, as noted below, had previously been approved as amendments to the 1945 SIC for use in the 1954 Census of Manufactures, and one had already been made for the 1947 Census. The other revisions listed were introduced for the first time in the 1958 Census.

1. Additions to the scope of manufacturing were as follows:

- a. Establishments processing milk (pasteurizing, homogenizing, vitaminizing and bottling)--transferred from trade industries. (Adopted for the 1954 Census.)
- b. Establishments primarily engaged in preparing fresh packaged fish and other seafood--transferred from trade industries. (Adopted for the 1954 Census.)
- c. Apparel and knitting jobbers and leather converters who assign materials to contract factories for fabrication for their account--transferred from trade industries. (Adopted for the 1954 and 1947 Censuses.)
- d. Establishments primarily engaged in producing ready-mixed concrete--transferred from trade industries.
- e. Machine shops solely engaged in repair work--transferred from service trades.

2. Transferred out of manufacturing were the following:

- a. Establishments primarily engaged in re-treading or rebuilding tires--transferred to service trades.

- b. Establishments primarily producing wiping rags--transferred to trade industries. (Adopted for the 1954 Census.)

C. Modifications of the 1957 Standard Industrial Classification for the 1958 Census of Manufactures

The following combinations and rearrangements of SIC industries were made for the 1958 Census:

1957 SIC Industry

1929--Ammunition, n.e.c.

2395--Pleating and Stitching }  
2396--Apparel Findings }

2541--Wood Partitions and Fixtures }  
2542--Metal Partitions and Fixtures }

2799--Service Industries for the }  
Printing Trades, n.e.c. }

2873--Agricultural Pesticides }  
2879--Agricultural Chemicals, n.e.c. }

3591--Machine Shops, Jobbing and Repair }  
3599--Machinery and Parts, Except Electrical, }  
n.e.c. }

3619--Electric Transmission and Distribution }  
Equipment, n.e.c. }

3711--Motor Vehicles }  
3712--Passenger Car Bodies }  
3714--Motor Vehicles Parts and Accessories }

1958 Census Industry

{ 1925--Guided Missiles, Complete  
1929--Ammunition, n.e.c.

2398--Trimmings and Stitching

254--Partitions and Fixtures

SIC industry not used because of insignificant activity in the industry. Establishments, if any, included with other printing service industries.

2873--Agricultural Pesticides

3599--Machine Shops

SIC industry not used because of insignificant activity in the industry. Establishments, if any, classified in other industries according to product.

3717--Motor Vehicles and Parts



## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

C-3

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2011	2011	Meat packing plants.....	2,801	977	200,783	1,746,603
2013	----	Prepared meats.....	1,494	496	48,586	442,058
	2013	Prepared meats.....	1,480	493	48,184	435,995
	----	All other industries <sup>1</sup> .....	14	3	402	6,063
2015	----	Poultry dressing plants.....	1,233	594	62,389	310,572
	2015	Poultry dressing plants.....	1,131	518	55,635	266,177
	2033	Canned fruits and vegetables.....	14	8	1,944	9,869
	2099	Food preparations, nec.....	79	66	4,490	30,293
	----	All other industries <sup>1</sup> .....	9	2	320	4,233
2021	2021	Creamery butter.....	1,058	228	17,295	147,207
2022	----	Natural cheese.....	1,203	160	13,461	109,098
	2022	Natural cheese.....	1,195	158	13,351	106,949
	----	All other industries <sup>1</sup> .....	8	2	110	2,149
2023	----	Condensed and evaporated milk.....	313	202	13,445	202,709
	2023	Concentrated milk.....	289	189	12,091	176,022
	2025	Special dairy products.....	24	13	1,354	26,687
2024	----	Ice cream and frozen desserts.....	1,382	454	34,562	393,037
	2024	Ice cream and ices.....	1,379	453	34,487	392,765
	----	All other industries <sup>1</sup> .....	3	1	75	272
2025	2025	Special dairy products.....	107	35	3,571	23,923
2026	----	Fluid milk.....	5,816	2,236	211,468	1,990,805
	2027	Fluid milk and other products.....	5,625	2,183	207,519	1,948,476
	2022	Natural cheese.....	95	26	1,854	19,804
	2025	Special dairy products.....	72	7	789	9,975
	----	All other industries <sup>1</sup> .....	24	20	1,306	12,550
2031	----	Canned and cured seafood.....	333	168	14,713	100,242
	2031	Canned seafood.....	252	142	12,696	87,749
	2032	Cured fish.....	81	26	2,017	12,493
2032	----	Canned specialties.....	107	69	24,186	340,847
	2033	Canned fruits and vegetables.....	100	66	23,986	338,240
	2099	Food preparations, nec.....	7	3	200	2,607
2033	----	Canned fruits and vegetables.....	1,607	913	100,084	808,306
	2033	Canned fruits and vegetables.....	1,523	884	96,906	772,210
	2035	Pickles and sauces.....	84	29	3,178	36,096
2034	2034	Dehydrated fruits and vegetables.....	161	67	7,599	75,529
2035	2035	Pickles and sauces.....	619	205	19,500	164,624
2036	2036	Fresh or frozen packaged fish.....	440	223	17,469	82,368
2037	----	Frozen fruits and vegetables.....	426	263	39,528	323,789
	2037	Frozen fruits and vegetables.....	297	173	25,370	209,444
	2099	Food preparations, nec.....	129	90	14,158	114,345
	----	All other industries <sup>1</sup> .....				
2041	2041	Flour and meal.....	814	250	28,215	393,053
2042	2042	Prepared animal feeds.....	2,379	715	57,313	798,892
2043	2043	Cereal preparations.....	43	25	10,927	243,088
2044	2044	Rice milling.....	72	51	3,843	53,152
2045	2045	Blended and prepared flour.....	117	30	4,894	118,073
2046	2094	Wet corn milling.....	59	26	13,792	249,435
2051	2051	Bread and related products.....	5,985	2,149	256,963	2,111,820
2052	----	Biscuit and crackers.....	334	203	44,333	522,490
	2052	Biscuit and crackers.....	299	180	42,983	505,618
	2099	Food preparations, nec.....	35	23	1,350	16,872
2061	2061	Raw cane sugar.....	50	44	3,011	21,841
2062	2062	Cane sugar refining.....	28	25	15,213	184,824
2063	2063	Beet sugar.....	66	66	10,324	130,393
2071	----	Confectionery products.....	1,390	421	66,395	511,688
	2071	Confectionery products.....	1,367	411	65,722	507,783
	2099	Food preparations, nec.....	23	10	665	3,905
2072	2072	Chocolate and cocoa products.....	28	25	8,271	135,098
2073	2073	Chewing gum.....	26	15	5,344	102,280
2082	2082	Malt liquors.....	258	224	71,494	1,114,590
2083	2083	Malt.....	46	34	2,404	55,087

See footnotes at end of Part 1.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2084	2084	Wines and brandy.....	239	73	5,941	114,242
2085	2085	Distilled liquor, except brandy.....	122	91	20,528	444,831
2086	----	Bottled and canned soft drinks.....	4,362	1,411	96,347	844,688
	2081	Bottled soft drinks.....	4,352	1,406	96,087	840,632
	2033	Canned fruits and vegetables.....	10	5	260	4,056
2087	----	Flavorings.....	531	95	9,483	262,223
	2095	Flavorings.....	527	94	9,446	262,025
	----	All other industries <sup>1</sup> .....	4	1	37	198
2091	2881	Cottonseed oil mills.....	214	163	8,355	63,587
2092	----	Soybean oil mills.....	117	83	8,095	139,612
	2883	Soybean oil mills.....	98	83	7,985	138,937
	----	All other industries <sup>1</sup> .....	19	...	110	675
2093	----	Vegetable oil mills, nec.....	46	20	2,252	42,066
	2884	Vegetable oil mills, nec.....	34	11	1,076	13,703
	2882	Linseed oil mills.....	9	8	1,055	17,832
	----	All other industries <sup>1</sup> .....	3	1	121	10,531
2094	----	Grease and tallow.....	539	173	12,384	127,120
	2886	Grease and tallow.....	513	167	11,857	122,579
	----	All other industries <sup>1</sup> .....	26	6	527	4,541
2095	----	Animal oils, nec.....	78	37	2,191	24,475
	2889	Animal oils, nec.....	75	36	2,153	23,985
	----	All other industries <sup>1</sup> .....	3	1	38	490
2096	----	Shortening and cooking oils.....	105	80	12,489	221,519
	2092	Shortening and cooking oils.....	69	50	9,419	158,256
	2093	Margarine.....	36	30	2,699	56,490
	----	All other industries <sup>1</sup> .....			371	6,773
2097	2097	Manufactured ice.....	1,570	170	14,557	107,527
2098	2098	Macaroni and spaghetti.....	214	76	6,825	67,130
2099	----	Food preparations, nec.....	2,687	695	67,992	1,066,017
	2099	Food preparations, nec.....	2,642	670	65,448	1,005,663
	2091	Leavening compounds.....	39	22	2,391	58,809
	----	All other industries <sup>1</sup> .....	6	3	153	1,545
2111	2111	Cigarettes.....	19	16	33,832	1,058,554
2121	2121	Cigars.....	283	114	29,350	183,140
2131	2131	Chewing and smoking tobacco.....	58	28	6,348	86,188
2141	2141	Tobacco stemming and redrying.....	144	122	14,937	85,578
2211	----	Weaving mills, cotton.....	496	395	243,419	1,078,592
	2233	Cotton broad-woven fabrics.....	489	393	242,145	1,070,569
	----	All other industries <sup>1</sup> .....	7	2	1,274	8,023
2221	2234	Weaving mills, synthetics.....	401	310	81,688	468,583
2231	----	Weaving and finishing mills, wool.....	469	311	55,952	336,618
	2213	Woolen and worsted fabrics.....	305	227	49,252	292,365
	2216	Finishing wool textiles.....	74	44	4,771	32,383
	2399	Textile products, nec.....	85	35	1,723	10,709
	----	All other industries <sup>1</sup> .....	5	5	206	1,161
2241	2241	Narrow fabric mills.....	488	242	24,587	142,638
2251	2251	Full-fashioned hosiery mills.....	432	241	33,687	172,996
2252	2252	Seamless hosiery mills.....	659	489	69,483	290,825
2253	----	Knit outerwear mills.....	1,123	633	60,672	339,914
	2253	Knit outerwear mills.....	1,120	632	60,603	339,582
	----	All other industries <sup>1</sup> .....	3	1	69	332
2254	2254	Knit underwear mills.....	140	122	27,918	135,703
2256	2256	Knit fabric mills.....	357	181	18,356	147,394
2259	----	Knitting mills, nec.....	75	38	3,230	14,543
	2255	Knit glove mills.....	24	19	1,808	6,710
	2259	Knitting mills, nec.....	51	19	1,422	7,833
2261	----	Finishing plants, cotton.....	446	174	49,212	289,115
	2261	Finishing textiles, except wool.....	446	174	49,212	289,115
2262	----	Finishing plants, synthetics.....	197	132	16,185	114,825
	2261	Finishing textiles, except wool.....	197	132	16,185	114,825

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2269	----	Finishing plants, nec.....	155	79	7,808	52,005
	2261	Finishing textiles, except wool.....	155	79	7,808	52,005
2271	----	Woven carpets and rugs.....	69	47	18,151	128,444
	2271	Wool carpets and rugs.....	52	39	17,491	125,514
	2273	Carpets and rugs, except wool.....	17	8	660	2,930
2272	----	Tufted carpets and rugs.....	92	72	11,528	108,846
	2271	Wool carpets and rugs.....	13	9	1,267	(D)
	2273	Carpets and rugs, except wool.....	79	63	10,261	(D)
2279	----	Carpets and rugs, nec.....	121	53	3,989	23,176
	2271	Wool carpets and rugs.....	3	2	989	(D)
	2273	Carpets and rugs, except wool.....	118	51	3,000	(D)
2281	----	Yarn mills, except wool.....	356	310	67,836	292,219
	2212	Yarn mills, wool, except carpet.....	17	17	3,743	22,689
	2224	Yarn mills, cotton system.....	316	282	51,929	259,114
	2271	Wool carpets and rugs.....	11	10	1,297	5,824
	----	All other industries <sup>1</sup> .....	12	1	867	4,592
2282	----	Throwing and winding mills.....	195	119	11,862	67,648
	2222	Yarn throwing mills.....	117	88	9,085	50,902
	2224	Yarn mills, cotton system.....	18	4	178	1,085
	2299	Textile goods, nec.....	35	23	2,245	13,948
	----	All other industries <sup>1</sup> .....	25	4	354	1,713
2283	----	Wool yarn mills.....	150	122	15,977	91,212
	2212	Yarn mills, wool, except carpet.....	111	96	12,009	65,197
	2271	Wool carpets and rugs.....	36	26	3,951	25,966
	----	All other industries <sup>1</sup> .....	3	...	17	49
2284	2223	Thread mills.....	86	49	11,213	62,965
2291	2291	Felt goods, nec.....	66	28	4,573	44,443
2292	2292	Lace goods.....	208	66	6,689	34,247
2293	2293	Padding and upholstery filling.....	196	83	7,139	57,303
2294	2294	Processed textile waste.....	183	68	4,607	31,100
2295	2295	Coated fabrics, not rubberized.....	126	64	10,182	100,420
2296	----	Tire cord and fabric.....	23	23	12,214	69,844
	2224	Yarn mills, cotton system.....	23	23	12,214	69,844
2297	2211	Scouring and combing plants.....	81	46	6,075	36,073
2298	2298	Cordage and twine.....	147	71	9,583	65,106
2299	2299	Textile goods, nec.....	138	49	7,862	60,841
2311	----	Men's and boys' suits and coats.....	1,365	763	122,205	642,510
	2311	Men's and boys' suits and coats.....	1,353	757	121,857	641,292
	----	All other industries <sup>1</sup> .....	12	6	348	1,218
2321	2321	Men's dress shirts and nightwear.....	880	606	103,596	421,876
2322	2322	Men's and boys' underwear.....	91	73	12,326	51,621
2323	----	Men's and boys' neckwear.....	362	111	7,734	48,938
	2323	Men's and boys' neckwear.....	362	111	7,663	48,692
	----	All other industries <sup>1</sup> .....			71	246
2327	----	Separate trousers.....	748	367	51,632	209,050
	2327	Separate trousers.....	744	363	51,365	207,866
	----	All other industries <sup>1</sup> .....	4	4	267	1,184
2328	----	Work clothing.....	500	396	64,780	255,481
	2328	Work shirts.....	50	40	6,282	20,482
	2329	Men's and boys' clothing, nec.....	450	356	58,498	234,999
2329	2329	Men's and boys' clothing, nec.....	539	324	32,392	149,951
2331	----	Women's blouses.....	1,260	735	47,484	200,164
	2331	Women's blouses.....	1,236	722	46,317	189,265
	2339	Women's outerwear, nec.....	24	13	1,167	10,899
2335	----	Women's dresses.....	4,653	2,899	184,717	970,963
	2333	Women's unit-priced dresses.....	3,700	2,346	135,606	765,236
	2334	Women's dozen-priced dresses.....	953	553	49,111	205,727
2337	2337	Women's suits, coats, and skirts.....	2,683	1,350	84,145	514,901
2339	----	Women's outerwear, nec.....	1,155	553	43,663	227,598
	2334	Women's dozen-priced dresses.....	251	112	8,162	40,517
	2338	Women's neckwear.....	88	21	1,447	8,300
	2339	Women's outerwear, nec.....	816	420	34,054	178,781

See footnotes at end of Part 1.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2341	2341	Women's and children's underwear.....	1,231	720	73,527	347,705
2342	2342	Corsets and allied garments.....	414	279	37,808	248,543
2351	2351	Millinery.....	803	284	17,838	109,133
2352	----	Hats and caps.....	446	169	17,701	91,298
	2325	Men's and boys' cloth hats.....	344	100	7,672	35,891
	2281	Fur-felt hats and hat bodies.....	53	36	6,221	37,221
	2282	Wool-felt hats and hat bodies.....	16	9	1,782	8,265
	2283	Straw hats.....	33	24	2,026	9,920
2361	----	Children's dresses.....	802	487	36,123	167,094
	2361	Children's dresses.....	779	473	34,685	160,628
	2369	Children's outerwear, nec.....	23	14	1,438	6,466
2363	2363	Children's coats.....	370	210	12,798	68,205
2369	2369	Children's outerwear, nec.....	756	377	31,888	146,050
2371	2371	Fur goods.....	1,651	78	9,355	95,411
2381	----	Fabric dress and work gloves.....	228	130	13,941	53,930
	2381	Fabric dress and work gloves.....	101	44	4,176	19,299
	2382	Fabric work gloves.....	127	86	9,765	34,631
2384	2384	Robes and dressing gowns.....	278	155	10,625	56,442
2385	2385	Waterproof outer garments.....	277	136	13,159	73,070
2386	2386	Leather and sheeplined clothing.....	154	71	4,626	27,847
2387	2387	Apparel belts.....	455	144	10,150	53,726
2389	----	Apparel, nec.....	309	93	7,525	41,262
	2383	Suspenders and garters.....	40	9	797	3,982
	2388	Handkerchiefs.....	83	35	2,536	14,535
	2389	Apparel, nec.....	180	46	3,939	21,575
	2342	Corsets and allied garments.....	6	3	253	1,170
2391	----	Curtains and draperies.....	783	206	16,366	87,273
	2391	Curtains and draperies.....	783	206	16,325	87,053
	----	All other industries <sup>1</sup> .....			41	220
2392	2392	Housefurnishings, nec.....	1,205	393	36,769	218,295
2393	2393	Textile bags.....	237	101	9,114	51,638
2394	2394	Canvas products.....	851	124	9,875	53,696
2397	2397	Schiffli-machine embroideries.....	703	48	5,739	44,311
2398	----	Trimnings and stitching.....	2,189	414	32,986	177,784
	2284	Hatters' fur.....	25	8	612	3,421
	2312	Suit and coat findings.....	93	44	2,420	13,549
	2326	Hat and cap materials.....	42	8	623	4,033
	2395	Tucking, pleating, and stitching.....	448	70	5,042	23,929
	2396	Trimnings and art goods.....	739	178	16,557	94,700
	2398	Embroideries, except Schiffli.....	832	102	7,458	37,054
	----	All other industries <sup>1</sup> .....	10	4	274	1,098
2399	----	Textile products, nec.....	919	212	17,930	98,087
	2399	Textile products, nec.....	912	206	16,476	92,428
	3729	Aircraft equipment, nec.....	7	6	1,454	5,659
2411	----	Logging camps and contractors.....	12,805	554	71,505	387,418
	2411	Logging camps and contractors.....	12,782	550	71,309	386,421
	2421	Sawmills and planing mills.....	23	4	196	997
2421	----	Sawmills and planing mills.....	15,636	2,486	245,687	1,194,650
	2421	Sawmills and planing mills.....	15,623	2,483	245,032	1,189,360
	----	All other industries <sup>1</sup> .....	13	3	655	5,290
2426	----	Hardwood dimension and flooring.....	436	263	25,140	110,354
	2421	Sawmills and planing mills.....	340	209	21,546	93,429
	2499	Wood products, nec.....	96	54	3,594	16,925
2429	----	Special product sawmills, nec.....	478	105	7,176	36,123
	2421	Sawmills and planing mills <sup>2</sup> .....	38	...	251	1,495
	2423	Shingle mills.....	219	40	2,731	17,159
	2424	Cooperage stock mills.....	156	44	2,958	10,499
	2425	Excelsior mills.....	65	21	1,236	6,970
2431	----	Millwork plants.....	3,163	713	61,962	412,548
	2431	Millwork plants.....	2,991	700	60,511	404,364
	2561	Window and door screens.....	168	11	1,200	7,680
	----	All other industries <sup>1</sup> .....	4	2	251	504
2432	----	Veneer and plywood plants.....	588	450	59,346	390,131
	2422	Veneer mills.....	288	206	13,103	75,116
	2432	Plywood plants.....	293	242	45,832	312,068
	----	All other industries <sup>1</sup> .....	7	2	411	2,947

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2433	2433	Fabricated wood products.....	374	150	13,550	122,344
2441	----	Nailed wooden boxes and shook.....	885	259	20,916	102,248
	2443	Cigar boxes.....	7	3	220	1,053
	2444	Wooden boxes.....	858	245	19,480	94,875
	----	All other industries <sup>1</sup> .....	20	11	1,216	6,320
2442	----	Wirebound boxes and crates.....	98	59	9,366	43,109
	2442	Rattan and willow ware.....	18	2	122	520
	2444	Wooden boxes.....	80	57	9,244	42,589
2443	----	Veneer and plywood containers.....	105	65	5,416	18,323
	2441	Fruit and vegetable baskets.....	99	61	5,256	17,722
	2444	Wooden boxes.....	6	4	160	601
2445	2445	Cooperage.....	190	35	3,871	19,843
2491	2491	Wood preserving.....	306	148	10,933	72,508
2499	----	Wood products, nec.....	2,725	598	46,434	267,014
	2499	Wood products, nec.....	2,206	464	34,035	175,711
	2451	Millwork plants.....	18	6	318	2,460
	2452	Plywood plants.....	18	13	1,594	12,870
	2442	Rattan and willow ware.....	36	14	1,246	5,663
	2492	Leads and related products.....	65	27	2,024	15,307
	2495	Mirror and picture frames.....	346	58	5,738	37,643
	3982	Cork products.....	24	10	907	13,988
	----	All other industries <sup>1</sup> .....	12	6	572	3,372
2511	----	Wood furniture, except upholstered.....	2,816	931	125,320	704,660
	2511	Wood furniture, not upholstered.....	2,810	930	125,192	704,018
	----	All other industries <sup>1</sup> .....	6	1	128	642
2512	----	Wood furniture, upholstered.....	1,761	683	61,485	391,243
	2512	Wood household furniture, upholstered.....	1,756	682	61,442	391,058
	----	All other industries <sup>1</sup> .....	5	1	43	185
2514	----	Metal household furniture.....	627	273	30,704	218,746
	2514	Metal household furniture.....	623	271	30,623	218,373
	----	All other industries <sup>1</sup> .....	4	2	81	373
2515	----	Mattresses and bedsprings.....	1,215	377	31,703	248,801
	2515	Mattresses and bedsprings.....	1,052	289	25,517	207,844
	2512	Wood furniture, upholstered.....	163	88	6,186	40,957
2519	----	Household furniture, nec.....	93	32	2,205	16,176
	2519	Household furniture, nec.....	93	32	2,186	16,122
	----	All other industries <sup>1</sup> .....			19	54
2521	2521	Wood office furniture.....	150	56	5,821	38,427
2522	2522	Metal office furniture.....	151	88	17,469	173,673
2531	----	Public building furniture.....	390	147	15,952	112,881
	2531	Public-building furniture.....	386	144	15,841	112,088
	----	All other industries <sup>1</sup> .....	4	3	111	793
254-	----	Partitions and fixtures.....	1,848	426	37,747	301,250
	2541	Partitions and fixtures.....	1,844	425	37,526	300,218
	----	All other industries <sup>1</sup> .....	4	1	221	1,032
2591	----	Venetian blinds and shades.....	850	85	11,203	83,442
	2563	Venetian blinds.....	561	57	6,465	42,766
	2562	Window shades <sup>2</sup> .....	289	28	4,738	40,676
2599	----	Furniture and fixtures, nec.....	259	77	7,990	60,189
	2599	Furniture and fixtures, nec.....	84	29	2,823	22,335
	2591	Restaurant furniture.....	168	43	3,102	23,024
	----	All other industries <sup>1</sup> .....	7	5	2,065	14,830
2611	2611	Pulp mills.....	59	48	14,171	196,026
2621	----	Paper mills, except building.....	354	318	131,334	1,541,818
	2612	Paper and paperboard mills.....	354	318	131,334	1,541,818
2631	----	Paperboard mills.....	252	250	57,086	840,057
	2612	Paper and paperboard mills.....	252	250	57,086	840,057
2641	----	Paper coating and glazing.....	340	176	27,794	319,588
	2641	Paper coating and glazing.....	298	152	24,462	283,869
	2699	Paper and board products, nec.....	38	21	2,257	28,377
	----	All other industries <sup>1</sup> .....	4	3	1,075	7,342
2642	2651	Envelopes.....	205	146	17,757	138,318

See footnotes at end of Part 1.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2643	----	Bags, except textile bags.....	461	251	39,042	308,874
	2661	Paper bags.....	458	249	38,279	303,587
	----	All other industries <sup>1</sup> .....	3	2	763	5,287
2644	2693	Wallpaper.....	73	29	2,806	21,463
2645	----	Die cut paper and board.....	372	118	12,209	111,164
	2691	Die-cut paper and board.....	369	116	11,798	106,783
	----	All other industries <sup>1</sup> .....	3	2	411	4,381
2646	2694	Pressed and molded pulp goods.....	55	28	4,472	49,819
2649	----	Paper and board products, nec.....	739	324	46,892	463,668
	2699	Paper and board products, nec.....	726	313	43,181	412,206
	3842	Surgical appliances and supplies.....	10	9	3,245	49,559
	----	All other industries <sup>1</sup> .....	3	2	466	1,903
2651	----	Folding paperboard boxes.....	514	341	46,389	391,031
	2671	Paperboard boxes.....	514	341	46,389	391,031
2652	----	Set-up paperboard boxes.....	527	347	23,532	124,892
	2671	Paperboard boxes.....	527	347	23,532	124,892
2653	----	Corrugated shipping containers.....	805	514	70,792	596,934
	2671	Paperboard boxes.....	759	489	69,141	582,416
	2699	Paper and board products, nec.....	46	25	1,651	14,518
2654	----	Sanitary food containers.....	136	125	29,493	309,224
	2699	Paper and board products, nec.....	136	125	29,493	309,224
2655	----	Fiber cans, tubes, drums, etc.....	198	112	10,971	79,548
	2671	Paperboard boxes.....	9	3	358	2,423
	2674	Fiber cans, tubes, drums, and similar products.....	189	109	10,613	77,125
2661	----	Building paper and board mills.....	181	97	20,658	215,050
	2613	Building paper and board mills.....	129	96	20,363	213,369
	2661	Paper bags.....	52	1	295	1,681
2711	2711	Newspapers.....	8,250	1,724	294,258	2,516,921
2721	2721	Periodicals.....	2,323	387	66,028	932,554
2731	2731	Books, publishing and printing.....	903	233	40,069	616,241
2732	2732	Book printing.....	791	205	28,625	226,793
2741	2741	Miscellaneous publishing.....	1,105	164	19,870	206,851
2751	----	Printing: letterpress.....	13,002	1,640	189,078	1,482,604
	2751	Commercial printing.....	12,835	1,580	183,380	1,435,990
	2761	Lithographing.....	125	31	1,651	12,522
	2699	Converted paper and board products, nec.....	28	25	3,409	29,184
	----	All other industries <sup>1</sup> .....	14	4	638	4,908
2752	----	Printing: lithographic.....	3,746	1,026	89,678	797,397
	2761	Lithographing.....	3,703	1,015	88,808	790,501
	2751	Commercial printing.....	36	7	487	4,063
	----	All other industries <sup>1</sup> .....	7	4	383	2,833
2753	2792	Engraving and plate printing.....	528	102	9,047	64,471
2761	----	Manifold business forms.....	704	165	23,618	245,229
	2751	Commercial printing.....	273	115	14,042	143,649
	2761	Lithographing.....	411	37	7,351	80,934
	2782	Blank books and paper ruling.....			2,199	20,383
	----	All other industries <sup>1</sup> .....	20	13	26	263
2771	2771	Greeting cards.....	282	100	21,777	178,563
2782	----	Blankbooks; looseleaf binders.....	434	166	17,872	132,660
	2782	Blankbooks and paper ruling.....	289	95	8,141	59,244
	2783	Looseleaf binders and devices.....	136	64	9,079	69,159
	2751	Commercial printing.....	3	3	227	1,771
	----	All other industries <sup>1</sup> .....	6	4	425	2,486
2789	---	Bookbinding and related work.....	972	294	22,160	132,722
	2781	Bookbinding.....	755	227	17,894	105,021
	2789	Miscellaneous bookbinding work.....	213	65	4,152	26,957
	----	All other industries <sup>1</sup> .....	4	2	114	744

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2791	2791	Typesetting.....	1,188	247	18,011	155,123
2792	2792	Photoengraving.....	914	272	17,251	172,158
2794	2794	Electrotyping and stereotyping.....	226	111	6,759	62,675
2812	2812	Alkalies and chlorine.....	34	32	20,476	306,187
2813	----	Industrial gases.....	491	177	10,642	174,249
	2896	Compressed and liquefied gases.....	491	177	10,642	174,249
2814	2821	Cyclic (coal tar) crudes.....	45	23	2,084	29,993
2815	2822	Intermediate coal tar products.....	115	87	26,218	373,106
2816	----	Inorganic pigments.....	99	57	11,368	235,658
	2852	Inorganic color pigments.....	94	55	11,261	234,294
	----	All other industries <sup>1</sup> .....	5	2	107	1,364
2818	----	Organic chemicals, nec.....	334	185	77,442	1,671,723
	2829	Organic chemicals, nec.....	331	183	77,178	1,664,419
	----	All other industries <sup>1</sup> .....	3	2	264	7,304
2819	----	Inorganic chemicals, nec.....	580	301	89,874	1,468,854
	2819	Inorganic chemicals, nec.....	509	251	84,909	1,369,179
	2811	Sulfuric acid.....	50	38	3,455	72,649
	----	All other industries <sup>4</sup> .....	21	12	1,510	27,026
2821	----	Plastic materials.....	349	196	51,003	871,956
	2823	Plastic materials.....	343	195	50,781	863,991
	----	All other industries <sup>1</sup> .....	6	1	222	7,965
2822	2824	Synthetic rubber.....	18	17	9,252	197,866
2823	----	Cellulosic man-made fibers.....	26	26	42,597	390,310
	2825	Synthetic fibers.....	26	26	42,597	390,310
2824	----	Organic fibers, noncellulosic.....	14	14	18,684	439,638
	2825	Synthetic fibers.....	14	14	18,684	439,638
2831	2831	Biological products.....	116	35	3,692	38,947
2833	----	Medicinals and botanicals.....	129	50	10,246	175,817
	2832 } 2833 }	Medicinal chemicals, including botanicals.....	129	50	10,246	175,817
2834	----	Pharmaceutical preparations.....	1,114	318	82,002	1,881,524
	2834	Pharmaceutical preparations.....	1,114	318	81,961	1,877,091
	----	All other industries <sup>1</sup> .....			41	4,433
2841	----	Soap and other detergents.....	608	163	29,603	857,585
	2841	Soap and glycerin.....	245	76	20,638	655,669
	2842	Cleaning and polishing preparations.....	359	85	8,880	201,431
	----	All other industries <sup>1</sup> .....	4	2	85	485
2842	----	Polishes and sanitation goods.....	1,156	188	16,429	295,566
	2842	Cleaning and polishing preparations.....	901	137	11,754	218,852
	2899	Chemical products, nec.....	249	48	4,318	72,831
	----	All other industries <sup>1</sup> .....	6	3	357	3,883
2843	----	Surface active agents.....	142	46	3,122	52,421
	2843	Sulfonated oils and assistants.....	103	28	1,796	25,687
	2829	Organic chemicals, nec.....	17	8	743	16,850
	----	All other industries <sup>1</sup> .....	22	10	583	9,884
2844	----	Toilet preparations.....	748	181	29,464	697,529
	2893	Toilet preparations.....	745	179	29,375	686,540
	----	All other industries <sup>1</sup> .....	3	2	89	10,989
2851	2851	Paints and varnishes.....	1,591	577	57,034	783,285
2852	----	Putty and caulking compounds.....	118	23	1,736	23,610
	2853	Whiting and fillers.....	105	17	1,334	16,989
	----	All other industries <sup>5</sup> .....	13	6	402	6,621
2861	----	Gum and wood chemicals.....	190	41	7,251	85,302
	2861	Hardwood distillation.....	50	12	1,776	10,752
	2862	Softwood distillation.....	79	14	4,193	54,172
	2863	Gum naval stores.....	24	8	467	5,063
	2865	Tanning and dyeing materials.....	27	3	355	4,036
	2611	Pulp mills.....	10	4	460	11,279
2871	2871	Fertilizers.....	283	205	18,728	197,943
2872	2872	Fertilizers, mixing only.....	685	202	12,161	105,845

See footnotes at end of Part 1.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
2873	----	Agricultural pesticides.....	337	101	7,790	110,993
2879	----	Agricultural chemicals, nec.....				
2897	----	Insecticides and fungicides.....				
2899	----	Chemical products, nec.....				
----	----	All other industries <sup>1</sup> .....				
2891	----	Glue and gelatin.....	274	93	7,890	106,383
2894	----	Glue and gelatin.....	242	78	6,853	85,048
2899	----	Chemical products, nec.....	32	15	1,037	21,335
2892	2826	Explosives.....	77	58	14,971	131,646
2893	2891	Printing ink.....	302	94	7,960	108,803
2894	2887	Fatty acids.....	12	12	1,558	20,594
2895	2895	Carbon black.....	36	32	3,162	72,641
2899	----	Chemical preparations, nec.....	1,286	217	24,727	364,397
2892	----	Essential oils.....	25	9	899	16,533
2899	----	Chemical products, nec.....	1,149	164	17,941	278,660
3985	----	Fireworks and pyrotechnics.....	67	19	1,628	9,043
2898	----	Salt.....	39	24	4,167	59,251
----	----	All other industries <sup>1</sup> .....	6	1	92	910
2911	2911	Petroleum refining.....	446	313	146,025	2,119,402
2951	2951	Paving mixtures and blocks.....	563	89	7,797	112,548
2952	2952	Asphalt felts and coatings.....	209	128	15,520	159,449
2992	2992	Lubricating oils and greases.....	306	90	7,568	103,084
2999	2999	Petroleum and coal products, nec.....	84	33	2,256	26,903
3011	----	Tires and inner tubes.....	123	86	89,395	1,179,957
3011	----	Tires and inner tubes.....	62	55	87,246	1,155,205
3099	----	Rubber industries, nec.....	61	31	2,149	24,752
3021	3021	Rubber footwear.....	27	26	20,359	149,608
3031	3031	Reclaimed rubber.....	16	14	2,215	20,843
3069	3099	Fabricated rubber products, nec.....	1,074	558	119,565	997,254
3079	----	Plastics products, nec.....	3,222	1,143	116,308	928,950
3971	----	Plastics products, nec <sup>6</sup> .....	3,222	1,143	116,308	928,950
3111	3111	Leather tanning and finishing.....	578	280	37,130	275,796
3121	3121	Industrial leather belting.....	104	32	3,975	36,300
3131	----	Footwear, cut stock.....	513	235	18,031	98,380
3131	----	Footwear, cut stock.....	513	235	17,937	97,850
----	----	All other industries <sup>1</sup> .....			94	530
3141	3141	Footwear, except rubber.....	1,115	887	215,311	1,086,260
3142	3142	House slippers.....	164	97	11,520	59,656
3151	----	Leather gloves.....	180	76	6,212	25,999
3151	----	Leather dress gloves.....	102	47	3,935	16,171
3152	----	Leather work gloves.....	78	29	2,166	8,598
----	----	All other industries <sup>1</sup> .....			111	1,230
3161	----	Luggage.....	428	159	15,856	96,560
3161	----	Luggage.....	411	147	15,226	93,705
3986	----	Jewelry and instrument cases.....	14	9	474	2,244
----	----	All other industries <sup>1</sup> .....	3	3	156	611
3171	3171	Handbags and purses.....	620	262	21,953	111,496
3172	----	Small leather goods.....	400	123	13,657	75,791
3172	----	Small leather goods.....	237	67	7,534	43,080
3161	----	Luggage.....	17	5	383	2,599
3986	----	Jewelry and instrument cases.....	146	51	5,740	30,112
3199	----	Leather goods, nec.....	433	74	5,405	31,227
3192	----	Saddlery, harness, and whips.....	100	12	1,271	6,775
3199	----	Leather goods, nec.....	333	62	4,134	24,452
3211	3211	Flat glass.....	32	31	21,179	263,151
3221	3221	Glass containers.....	100	92	54,937	532,469
3229	3229	Pressed and blown glass, nec.....	140	98	37,108	312,342
3231	----	Products of purchased glass.....	1,031	239	24,024	242,657
3231	----	Products of purchased glass.....	1,024	236	23,516	238,882
----	----	All other industries <sup>1</sup> .....	7	3	508	3,775
3241	3241	Cement, hydraulic.....	175	170	41,127	724,771
3251	3251	Brick and structural tile.....	569	430	31,087	196,890
3253	----	Ceramic wall and floor tile.....	90	62	13,068	92,779
3253	----	Floor and wall tile.....	86	58	12,482	88,442
3259	----	Structural clay products, nec.....	4	4	586	4,337

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3255	3255	Clay refractories.....	167	117	12,394	104,898
3259	----	Structural clay products, nec.....	192	117	13,756	95,881
	3254	Sewer pipe.....	70	68	10,199	70,101
	3259	Structural clay products, nec.....	122	49	3,557	25,780
3261	3261	Vitreous plumbing fixtures.....	49	43	9,677	87,293
3262	3262	Vitreous china food utensils.....	29	24	7,640	42,555
3263	3263	Earthenware food utensils.....	34	26	8,555	34,170
3264	3264	Porcelain electrical supplies.....	59	44	9,107	66,074
3269	----	Pottery products, nec.....	584	108	9,240	54,020
	3265	China decorating for the trade.....	36	4	370	2,424
	3269	Pottery products, nec.....	548	104	8,870	51,596
3271	----	Concrete block and brick.....	1,796	336	22,766	190,355
	3271	Concrete products.....	1,796	336	22,766	190,355
3272	----	Concrete products.....	3,455	616	46,182	390,378
	3271	Concrete products.....	3,455	616	46,182	390,378
3273	----	Ready-mixed concrete.....	3,647	944	61,890	676,062
	3273	Ready-mixed concrete.....	3,624	931	61,109	669,931
	----	All other industries <sup>1</sup> .....	23	13	781	6,131
3274	3274	Lime.....	137	76	7,185	73,597
3275	----	Gypsum products.....	126	63	11,502	218,042
	3272	Gypsum products.....	123	62	11,425	216,978
	----	All other industries <sup>1</sup> .....	3	1	77	1,064
3281	3281	Cut-stone and stone products.....	1,001	243	20,348	129,038
3291	3291	Abrasive products.....	354	130	23,955	277,706
3292	3292	Asbestos products.....	109	80	21,292	235,487
3293	3293	Gaskets and insulations.....	282	99	13,494	105,211
3295	----	Minerals: ground or treated.....	391	104	7,906	111,414
	3295	Minerals: ground or treated.....	386	100	7,557	104,682
	----	All other industries <sup>1</sup> .....	5	4	349	6,732
3296	----	Mineral wool.....	135	69	12,294	137,577
	3275	Mineral wool.....	95	61	11,831	132,533
	3299	Nonmetallic mineral products, nec.....	40	8	463	5,044
3297	3297	Nonclay refractories.....	84	66	8,013	102,362
3299	----	Nonmetallic minerals, nec.....	254	51	4,316	31,973
	3299	Nonmetallic mineral products, nec.....	109	32	3,062	24,710
	3298	Statuary and art goods.....	145	19	1,254	7,263
3312	3312	Blast furnaces and steel mills.....	291	260	511,392	6,062,227
3313	3313	Electrometallurgical products.....	37	35	178,880	178,880
3315	----	Steel wire drawing.....	170	103	19,250	196,200
	3392	Wire drawing.....	102	71	15,805	165,883
	3481	Nails and spikes.....	68	32	3,445	30,317
3316	----	Cold finishing of steel shapes.....	78	63	10,943	141,516
	3399	Primary metal industries, nec.....	78	63	10,943	141,516
3317	----	Steel pipe and tubes.....	136	101	23,911	284,096
	3312	Blast furnaces and steel mills <sup>7</sup> .....	4	4	1,439	23,549
	3393	Steel pipe and tubes.....	132	97	22,472	260,547
3321	----	Gray-iron foundries.....	1,310	848	112,670	810,758
	3321	Gray-iron foundries.....	1,297	843	112,263	807,480
	----	All other industries <sup>1</sup> .....	13	5	407	3,278
3322	----	Malleable iron foundries.....	82	74	20,230	127,592
	3322	Malleable iron foundries.....	82	74	19,949	125,473
	----	All other industries <sup>1</sup> .....			281	2,119
3323	3323	Steel foundries.....	256	216	49,133	385,870
3331	3331	Primary copper.....	30	29	14,561	158,122
3332	3332	Primary lead.....	13	13	3,563	36,325
3333	3333	Primary zinc.....	20	20	8,923	71,653
3334	3334	Primary aluminum.....	20	20	17,381	383,836
3339	3339	Primary nonferrous metals, nec.....	29	18	2,658	50,495
3341	3341	Secondary nonferrous metals.....	387	152	14,441	147,262
3351	----	Copper rolling and drawing.....	105	89	40,329	445,371
	3351	Copper rolling and drawing.....	98	85	39,997	441,150
	3392	Wire drawing.....	7	4	332	4,221

See footnotes at end of Part 1.

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3352	----	Aluminum rolling and drawing.....	185	129	46,879	537,086
	3352	Aluminum rolling and drawing.....	168	112	42,375	475,331
	3497	Metal foil and leaf.....	17	17	4,504	61,755
3356	3359	Rolling and drawing, nec.....	143	73	16,571	174,633
3357	----	Nonferrous wire drawing, etc.....	278	182	56,493	568,911
	3631	Insulated wire and cable.....	172	91	17,105	154,248
	3392	Wire drawing.....	98	86	38,093	397,392
	3351	Copper rolling and drawing.....	5	5	1,286	17,178
	----	All other industries <sup>1</sup> .....	3	...	9	95
3361	----	Aluminum castings.....	955	283	30,045	225,686
	3361	Nonferrous foundries.....	955	283	30,045	225,686
3362	----	Brass, bronze, copper castings.....	665	209	14,861	109,744
	3361	Nonferrous foundries.....	665	209	14,861	109,744
3369	----	Nonferrous castings, nec.....	345	136	17,253	135,311
	3361	Nonferrous foundries.....	345	136	17,253	135,311
3391	3391	Iron and steel forgings.....	301	189	36,456	310,148
3392	----	Nonferrous forgings.....	29	20	5,932	40,963
	3399	Primary metal industries, nec.....	29	20	5,932	40,963
3399	3399	Primary metal industries, nec.....	581	149	9,795	90,656
3411	----	Metal cans.....	222	189	54,238	668,606
	3411	Tin cans and other tinware.....	222	189	54,238	668,606
3421	3421	Cutlery.....	183	72	11,831	126,310
3423	----	Hand and edge tools.....	763	250	30,273	267,316
	3422	Edge tools.....	237	76	6,754	55,422
	3423	Hand tools, nec.....	494	161	21,037	186,098
	3424	Files.....	25	7	2,035	20,068
	----	All other industries <sup>1</sup> .....	7	6	447	5,728
3425	3425	Hand saws and saw blades.....	89	38	5,509	53,658
3429	----	Hardware, nec.....	1,059	454	88,105	754,943
	3429	Hardware, nec.....	1,053	451	87,537	750,783
	----	All other industries <sup>1</sup> .....	6	3	568	4,160
3431	----	Plumbing fixtures.....	63	41	12,432	118,555
	3431	Plumbing fixtures and fittings.....	63	41	12,432	118,555
3432	----	Plumbing fittings, brass goods.....	254	84	14,663	120,560
	3431	Plumbing fixtures and fittings.....	254	84	14,663	120,560
3433	----	Nonelectric heating equipment.....	672	303	44,680	432,799
	3439	Heating and cooking apparatus (except electric), nec.....	649	290	43,281	421,195
	3568	Mechanical stokers.....	19	9	693	5,566
	----	All other industries <sup>1</sup> .....	4	4	706	6,038
3441	----	Fabricated structural steel.....	1,861	780	91,252	821,626
	3441	Structural and ornamental work.....	1,851	779	90,707	815,394
	----	All other industries <sup>1</sup> .....	10	1	545	6,232
3442	----	Metal doors, sash, and trim.....	1,546	560	57,897	469,050
	2561	Window and door screens.....	100	42	3,403	29,972
	3442	Metal doors, sash, and trim.....	1,440	516	54,353	437,859
	----	All other industries <sup>1</sup> .....	6	2	141	1,219
3443	----	Boiler shop products.....	1,252	557	90,551	754,972
	3441	Structural and ornamental products.....	14	5	537	3,692
	3443	Boiler shop products.....	1,189	516	81,501	682,298
	3569	General industrial machinery, nec.....	41	33	8,360	66,976
	----	All other industries <sup>1</sup> .....	8	3	153	2,006
3444	----	Sheet-metal work.....	3,159	699	58,800	516,136
	3444	Sheet-metal work.....	3,146	694	58,307	512,843
	----	All other industries <sup>1</sup> .....	13	5	493	3,293
3449	----	Miscellaneous metal work, nec.....	1,591	397	42,122	401,076
	3441	Structural and ornamental work.....	1,585	396	42,043	400,445
	----	All other industries <sup>1</sup> .....	6	1	79	631

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3451	3495	Screw machine products.....	1,792	419	31,836	249,975
3452	3494	Bolts, nuts, washers, and rivets.....	525	283	53,270	504,731
3461	----	Metal stampings.....	2,456	1,041	125,567	1,049,311
	3461	Vitreous-enamelled products.....	55	33	5,803	40,582
	3463	Metal stampings.....	2,389	999	117,796	992,037
	----	All other industries <sup>1</sup> .....	12	9	1,968	16,692
3471	3468	Plating and polishing.....	2,646	542	36,471	253,784
3479	----	Metal coating, engraving, etc.....	1,003	192	15,680	108,379
	3465	Enameling and lacquering.....	467	97	7,104	47,723
	3466	Galvanizing.....	199	54	4,376	32,890
	3467	Engraving on metal.....	337	41	4,200	27,766
3481	----	Fabricated wire products, nec.....	1,463	538	55,476	439,940
	3489	Wirework, nec.....	1,459	535	55,129	437,473
	----	All other industries <sup>1</sup> .....	4	3	347	2,467
3491	----	Metal barrels, drums, and pails.....	125	74	9,640	94,548
	3411	Tin cans and other tinware.....	4	4	585	3,318
	3491	Metal barrels, drums, and pails.....	121	70	9,055	91,230
3492	3492	Safes and vaults.....	33	12	3,495	39,537
3493	----	Steel springs.....	90	43	6,758	54,135
	3493	Steel springs.....	90	43	5,515	44,384
	----	All other industries <sup>1</sup> .....			1,243	9,751
3494	----	Valves and pipe fittings.....	588	345	74,994	716,056
	3591	Valves and fittings, except plumbing.....	571	336	74,363	710,045
	3429	Hardware, nec.....	14	9	610	5,817
	----	All other industries <sup>1</sup> .....	3	...	21	194
3496	3496	Collapsible tubes.....	22	20	3,837	25,257
3497	3497	Metal foil and leaf.....	65	30	3,195	35,170
3498	----	Fabricated pipe and fittings.....	286	136	15,214	155,621
	3592	Fabricated pipe and fittings.....	282	134	15,135	154,938
	----	All other industries <sup>1</sup> .....	4	2	79	683
3499	----	Fabricated metal products, nec.....	974	213	20,200	180,132
	3499	Fabricated metal products, nec.....	966	209	19,601	175,193
	----	All other industries <sup>1</sup> .....	8	4	599	4,939
3511	----	Steam engine and turbines.....	28	25	45,347	568,643
	3511	Steam engine and turbines.....	25	23	43,979	558,885
	----	All other industries <sup>1</sup> .....	3	2	1,368	9,758
3519	----	Internal combustion engines.....	112	75	50,225	499,328
	3519	Internal combustion engines.....	109	74		
	----	All other industries <sup>1</sup> .....	3	1	50,225	499,328
3522	----	Farm machinery and equipment.....	1,469	509	108,586	1,087,836
	3521	Tractors.....	92	41	31,656	368,447
	3522	Farm machinery (except tractors).....	1,341	449	75,273	693,302
	3563	Conveyors.....	22	16	1,121	13,061
	----	All other industries <sup>1</sup> .....	14	3	536	13,026
3531	----	Construction machinery.....	579	295	95,304	1,022,801
	3531	Construction machinery.....	541	267	65,689	607,697
	3521	Tractors.....	35	25	28,464	408,197
	----	All other industries <sup>1</sup> .....	3	3	1,151	6,907
3532	----	Mining machinery and equipment.....	173	90	17,808	165,831
	3531	Construction machinery.....	169	88	(D)	(D)
	----	All other industries <sup>1</sup> .....	4	2	(D)	(D)
3533	----	Oil field machines and equipment.....	389	168	31,878	336,788
	3532	Oil-field machinery and tools.....	383	166	31,726	334,765
	----	All other industries <sup>1</sup> .....	6	2	152	2,023
3534	3562	Elevators and moving stairways.....	144	76	9,626	126,270
3535	----	Conveyors.....	420	150	20,789	192,892
	3563	Conveyors.....	409	150	20,743	192,402
	----	All other industries <sup>1</sup> .....	11	...	46	490
3536	----	Hoists, cranes, and monorails.....	81	54	9,520	92,759
	3531	Construction machinery.....	40	24	(D)	(D)
	3563	Conveyors.....	39	29	6,647	64,399
	----	All other industries <sup>1</sup> .....	2	1	(D)	(D)

See footnotes at end of Part 1.

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3537	----	Industrial trucks and tractors.....	262	96	14,786	117,500
	3565	Industrial trucks and tractors.....	257	95	14,753	117,266
	----	All other industries <sup>1</sup> .....	5	1	33	234
3541	----	Metal-cutting machine tools.....	627	231	52,864	420,961
	3541	Machine tools.....	621	228	52,457	419,274
	----	All other industries <sup>1</sup> .....	6	3	407	1,687
3542	----	Metal forming machine tools.....	291	147	22,502	176,021
	3542	Metalworking machinery.....	287	145	(D)	(D)
	----	All other industries <sup>1</sup> .....	4	2	(D)	(D)
3544	----	Special dies and tools.....	5,745	994	83,308	780,090
	3544	Special dies and tools.....	4,822	832	69,016	655,070
	3594	Industrial patterns and molds.....	874	150	13,297	118,067
	3599	Machine shops.....	34	4	488	3,235
	----	All other industries <sup>1</sup> .....	15	8	507	3,718
3545	----	Machine tool accessories.....	905	297	41,521	348,580
	3545	Metalworking machinery attachments.....	899	295	39,677	336,361
	----	All other industries <sup>1</sup> .....	6	2	1,844	12,219
3548	----	Metalworking machinery, nec.....	362	143	33,328	332,397
	3542	Metalworking machinery.....	312	118	30,424	303,750
	3589	Service and household machines, nec.....	47	23	2,820	27,992
	----	All other industries <sup>1</sup> .....	3	2	84	655
3551	3551	Food products machinery.....	672	240	27,715	268,639
3552	----	Textile machinery.....	553	212	34,313	214,199
	3552	Textile machinery.....	547	210	34,186	213,048
	----	All other industries <sup>1</sup> .....	6	2	127	1,151
3553	3553	Woodworking machinery.....	257	96	12,219	112,936
3554	3554	Paper industries machinery.....	202	97	15,713	123,758
3555	3555	Printing trades machinery.....	442	119	21,453	188,881
3559	----	Special industry machinery, nec.....	1,048	388	50,849	431,117
	3559	Special industry machinery, nec.....	1,031	379	50,124	425,287
	3567	Industrial furnaces and ovens.....	9	6	522	3,958
	----	All other industries <sup>1</sup> .....	8	3	203	1,872
3561	----	Pumps and compressors.....	582	243	60,042	542,037
	3561	Pumps and compressors.....	569	239	59,819	539,615
	----	All other industries <sup>1</sup> .....	13	4	223	2,422
3562	3593	Ball and roller bearings.....	107	81	46,439	407,744
3564	3564	Blowers and fans.....	207	104	15,947	145,050
3565	----	Industrial patterns.....	1,174	96	8,870	78,108
	3594	Industrial patterns and molds.....	1,168	95	8,817	77,678
	----	All other industries <sup>1</sup> .....	6	1	53	430
3566	----	Power transmission equipment.....	470	236	41,782	384,372
	3566	Power transmission equipment.....	460	231	41,565	382,582
	3361	Nonferrous castings.....	8	5	(D)	(D)
	----	All other industries <sup>1</sup> .....	2	...	(D)	(D)
3567	----	Industrial furnaces and ovens.....	201	89	10,288	96,450
	3567	Industrial furnaces and ovens.....	156	64	8,181	80,687
	3619	Electrical industrial apparatus, nec.....	44	24	(D)	(D)
	----	All other industries <sup>1</sup> .....	1	1	(D)	(D)
3569	3569	General industry machinery, nec.....	584	209	28,014	281,423
3571	----	Computing and related machines.....	136	71	80,864	579,103
	3571	Computing and related machines.....	133	69	80,715	578,280
	----	All other industries <sup>1</sup> .....	3	2	149	823
3572	3572	Typewriters.....	18	13	19,779	168,877
3576	3576	Scales and balances.....	72	32	5,347	49,125
3579	3579	Office machines, nec.....	120	72	15,625	173,424
3581	----	Automatic vending machines.....	121	53	7,894	64,694
	3579	Office and store machines, nec.....	80	34	4,347	34,749
	3585	Refrigeration machinery.....	32	18	3,456	29,349
	----	All other industries <sup>1</sup> .....	9	1	91	596
3582	----	Commercial laundry equipment.....	119	47	6,560	65,580
	3582	Laundry and dry-cleaning machinery.....	119	47	6,480	64,717
	----	All other industries <sup>1</sup> .....			80	863

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3584	3584	Vacuum cleaners, industrial.....	18	6	432	4,256
3585	----	Refrigeration machinery.....	625	278	67,715	598,032
	3585	Refrigeration machinery.....	585	267	66,739	589,078
	3997	Soda fountain and bar equipment.....	40	11	976	8,954
3586	3586	Measuring and dispensing pumps.....	32	20	6,201	64,689
3589	----	Service industry machines, nec.....	341	119	11,257	120,900
	3439	Heating and cooking equipment, nec.....	73	28	2,838	26,248
	3589	Service and household machines, nec.....	243	71	6,967	78,543
	3621	Electrical appliances.....	25	20	1,452	16,109
3599	----	Machine shops.....	10,151	1,089	115,535	959,099
	3599	Machine shops.....	10,139	1,087	114,892	953,395
	----	All other industries <sup>1</sup> .....	12	2	643	5,704
3611	----	Electrical measuring instruments.....	492	200	46,923	419,396
	3613	Electrical measuring instruments.....	484	198	45,004	409,594
	----	All other industries <sup>1</sup> .....	8	2	1,919	9,802
3612	----	Transformers.....	175	82	34,601	364,212
	3615	Transformers.....	172	81	34,546	363,351
	----	All other industries <sup>1</sup> .....	3	1	55	861
3613	----	Switchgear and switchboards.....	402	203	52,871	555,044
	3616	Electrical control apparatus.....	402	203	52,871	555,044
3621	3614	Motors and generators.....	378	237	93,541	813,124
3622	3616	Industrial controls.....	216	75	27,150	281,890
3623	3617	Welding apparatus.....	135	70	9,895	112,709
3624	3612	Carbon and graphite products.....	46	35	8,904	102,483
3629	----	Electric industrial goods, nec.....	286	111	16,842	137,547
	3619	Electrical industrial apparatus, nec.....	283	109	15,681	123,483
	----	All other industries <sup>1</sup> .....	3	2	1,161	14,064
3631	----	Household cooking equipment.....	69	55	18,152	181,091
	3439	Heating and cooking apparatus (except electrical).....	55	45	12,810	108,598
	3621	Electrical appliances.....	14	10	5,342	72,493
3632	----	Household refrigerators.....	26	26	41,493	433,369
	3585	Refrigeration machinery.....	26	26	41,493	433,369
3633	----	Household laundry equipment.....	39	33	24,597	324,480
	3581	Domestic laundry equipment.....	36	32	24,513	323,900
	----	All other industries <sup>1</sup> .....	3	1	84	580
3634	----	Electric housewares and fans.....	312	106	29,551	305,514
	3621	Electrical appliances.....	312	106	29,551	305,514
3635	----	Household vacuum cleaners.....	27	14	5,330	84,180
	3584	Vacuum cleaners.....	27	14	5,330	84,180
3636	3583	Sewing machines.....	85	17	9,607	61,991
3639	----	Household appliances, nec.....	94	71	14,622	162,664
	3439	Heating and cooking apparatus (except electric).....	50	38	8,729	80,227
	3589	Service and household machines, nec.....	26	18	4,630	71,927
	3621	Electrical appliances.....	18	15	1,263	10,510
3641	3651	Electric lamps.....	66	52	21,495	270,498
3642	----	Lighting fixtures.....	1,181	431	47,309	397,378
	3471	Lighting fixtures.....	1,177	429	47,231	396,665
	----	All other industries <sup>1</sup> .....	4	2	78	713
3643	----	Current carrying devices.....	422	160	34,808	294,189
	3611	Wiring devices and supplies.....	402	143	30,829	259,211
	3661	Radios and related products.....	20	17	3,979	34,978
3644	----	Noncurrent carrying devices.....	150	93	19,722	214,607
	3611	Wiring devices and supplies.....	150	93	19,722	214,607
3651	----	Radio and TV receiving sets.....	234	144	66,505	593,953
	3661	Radios and related products.....	234	144	66,505	593,953

See footnotes at end of Part 1.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3652	3663	Phonograph records.....	94	53	7,421	93,073
3661	----	Telephone; telegraph apparatus.....	95	55	85,544	740,855
	3664	Telephone and telegraph equipment.....	68	54	85,214	737,691
	----	All other industries <sup>1</sup> .....	27	1	330	3,164
3662	----	Radio, TV, communication equipment.....	512	260	129,515	1,297,583
	3661	Radios and related products.....	318	211	118,575	1,199,758
	3669	Communication equipment, nec.....	178	43	10,387	92,112
	----	All other industries <sup>1</sup> .....	16	6	553	5,713
3671	----	Electron tubes, receiving type.....	85	41	36,968	285,799
	3662	Electron tubes.....	85	41	36,968	285,799
3672	----	Cathode ray picture tubes.....	75	30	8,554	67,472
	3662	Electron tubes.....	75	30	8,554	67,472
3673	----	Electron tubes, transmitting.....	48	44	20,146	165,803
	3662	Electron tubes.....	48	44	20,146	165,803
3679	----	Electronic components, nec.....	1,479	737	132,242	914,811
	3661	Radios and related products.....	1,414	684	105,018	693,823
	3662	Electron tubes.....	65	53	27,224	220,988
3691	3691	Storage batteries.....	276	106	14,924	150,061
3692	3692	Primary batteries, dry and wet.....	42	29	8,096	75,431
3693	3693	X-ray and therapeutic apparatus.....	126	33	5,258	58,436
3694	3641	Engine electrical equipment.....	166	98	39,840	366,626
3699	----	Electrical products, nec.....	259	99	10,259	73,581
	3699	Electrical products, nec.....	253	95	9,906	71,349
	3669	Communications equipment, nec.....	6	4	353	2,232
3713	----	Truck and bus bodies.....	562	187	20,009	145,608
	3713	Truck and bus bodies.....	558	185	19,868	144,929
	----	All other industries <sup>1</sup> .....	4	2	141	679
3715	3715	Truck trailers.....	170	93	15,669	131,140
3717	----	Motor vehicles and parts.....	1,551	744	541,510	6,473,927
	3599	Machine shops.....	250	73	5,797	48,445
	3566	Power transmission equipment.....	29	19	4,994	59,717
	3717	Motor vehicles and parts.....	1,264	651	550,658	6,365,106
	----	All other industries <sup>1</sup> .....	8	1	61	659
3721	3721	Aircraft.....	127	82	377,383	3,399,163
3722	3722	Aircraft engines and parts.....	223	175	159,094	1,615,671
3723	3723	Aircraft propellers and parts.....	18	10	15,505	112,301
3729	----	Aircraft equipment, nec.....	1,201	508	213,500	1,797,203
	3729	Aircraft equipment, nec.....	1,129	467	158,794	1,343,699
	3566	Power transmission equipment.....	17	14	1,935	16,583
	1929	Ammunition, nec.....	49	22	50,631	417,831
	----	All other industries <sup>1</sup> .....	6	5	2,140	19,088
3731	3731	Ship building and repairing.....	319	222	119,147	913,687
3732	----	Boat building and repairing.....	1,651	277	25,295	157,309
	3732	Boat building and repairing.....	1,646	276	25,216	156,731
	----	All other industries <sup>1</sup> .....	5	1	79	578
3741	3741	Locomotives and parts.....	25	13	15,282	132,086
3742	----	Railroad and street cars.....	67	44	24,309	167,576
	3742	Railroad and street cars.....	67	44	23,931	165,066
	----	All other industries <sup>1</sup> .....	67	44	378	2,510
3751	3751	Motorcycles, bicycles, and parts.....	51	29	7,578	52,125
3791	----	Trailer coaches, housing type.....	386	209	18,717	127,683
	3716	Automobile trailers.....	386	209	18,717	127,683
3799	----	Transportation equipment, nec.....	256	69	4,761	38,215
	3799	Transportation equipment, nec.....	133	40	2,530	17,672
	3716	Automobile trailers.....	119	27	2,017	18,885
	----	All other industries <sup>1</sup> .....	4	2	214	1,658
3811	----	Scientific instruments.....	567	206	67,456	606,530
	3811	Scientific instruments.....	493	175	63,465	576,059
	3576	Scales and balances.....	7	6	386	2,883
	----	All other industries <sup>1</sup> .....	67	25	3,605	27,588
3821	----	Mechanical measuring devices.....	627	229	50,049	457,126
	3821	Mechanical measuring instruments.....	618	222	48,072	441,340
	3571	Computing and related machines.....	9	7	1,727	12,617
	----	All other industries <sup>1</sup> .....	9	7	250	3,169

See footnotes at end of Part 1.



## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
3822	----	Automatic temperature controls.....	83	44	25,513	258,969
	3821	Mechanical measuring instruments.....	83	44	25,513	258,969
3851	3851	Optical instruments and lenses.....	224	58	7,184	60,387
3841	----	Surgical and medical instruments.....	231	88	10,293	85,153
	3841	Surgical and medical instruments.....	206	66	8,714	72,647
	2532	Professional furniture.....	25	22	1,579	12,506
3842	----	Surgical appliances and supplies.....	590	161	24,179	257,640
	3842	Surgical appliances and supplies.....	561	144	21,826	230,141
	3699	Electrical products, nec.....	25	14	1,984	25,714
	----	All other industries <sup>1</sup> .....	4	3	369	1,785
3843	3843	Dental equipment and supplies.....	249	55	7,242	71,574
3851	3851	Ophthalmic goods.....	246	104	18,223	136,696
3861	3861	Photographic equipment.....	480	159	60,262	788,759
3871	3871	Watches and clocks.....	168	65	23,505	165,158
3872	3872	Watchcases.....	61	24	2,652	18,398
3911	3911	Jewelry, precious metal.....	1,302	183	21,010	165,549
3912	3912	Jewelers' findings and materials.....	249	56	5,101	33,434
3913	3913	Lapidary work.....	326	18	1,904	14,605
3914	3914	Silverware and plated ware.....	209	87	13,852	109,728
3931	----	Musical instruments and parts.....	274	117	17,450	131,703
	3931	Pianos.....	24	22	5,824	37,316
	3932	Organs.....	50	19	2,314	19,252
	3933	Piano and organ parts.....	49	23	3,335	31,133
	3939	Musical instruments, nec <sup>7</sup> .....	151	53	5,977	44,002
3941	3941	Games and toys, nec.....	854	367	42,972	288,863
3942	3942	Dolls.....	485	162	13,860	77,149
3943	3943	Children's vehicles.....	58	33	4,708	31,727
3949	----	Sporting and athletic goods, nec.....	1,210	302	37,164	314,059
	3949	Sporting and athletic goods.....	1,206	299	37,025	313,014
	----	All other industries <sup>1</sup> .....	4	3	139	1,045
3951	----	Pens and mechanical pencils.....	147	66	11,179	90,197
	3951	Pens and mechanical pencils.....	142	64	10,957	88,269
	2899	Chemical products, nec.....	5	2	222	1,928
3952	----	Lead pencils and art goods.....	146	54	6,687	47,909
	3952	Lead pencils.....	53	33	4,891	35,980
	3954	Artists' materials.....	93	21	1,796	11,929
3953	----	Marking devices.....	525	70	5,447	39,940
	3953	Hand stamps and stencils.....	525	70	5,430	39,775
	----	All other industries <sup>1</sup> .....			17	165
3955	3955	Carbon paper and inked ribbons.....	103	61	5,818	58,951
3961	3961	Costume jewelry.....	1,051	255	25,286	138,043
3962	3962	Artificial flowers.....	431	101	6,770	34,650
3963	----	Buttons.....	356	87	6,462	37,967
	3963	Buttons.....	356	87	6,453	37,908
	----	All other industries <sup>1</sup> .....			9	59
3964	----	Needles, pins, and fasteners.....	367	128	17,756	127,664
	3964	Needles, pins, and fasteners <sup>7</sup> .....	367	128	17,756	127,664
3981	3981	Brooms and brushes.....	723	179	17,082	137,496
3982	2274	Hard surface floor coverings.....	14	14	7,999	93,145
3983	3983	Matches.....	23	20	5,127	41,776
3984	3984	Candles.....	86	25	2,516	17,668
3987	3987	Lamp shades.....	270	50	3,895	18,577
3988	3988	Morticians' goods.....	592	219	17,362	128,879
3992	3992	Furs, dressed and dyed.....	137	31	2,696	24,112
3993	----	Signs and advertising displays.....	2,725	460	36,170	281,168
	3993	Signs and advertising displays.....	2,721	459	36,100	280,763
	----	All other industries <sup>1</sup> .....	4	1	70	405
3995	3995	Umbrellas, parasols, and canes.....	123	43	2,932	16,602
3999	----	Miscellaneous products, nec.....	1,259	264	27,285	192,313
	3579	Office and store machines, nec.....	26	12	3,100	18,675
	3991	Beauty and barber shop equipment.....	75	22	1,892	16,150
	3994	Hair work.....	130	24	1,593	8,522
	3996	Tobacco pipes.....	32	10	1,122	7,105
	3999	Miscellaneous products, nec.....	986	190	19,279	140,596
	----	All other industries <sup>1</sup> .....	10	6	299	1,465

See footnotes at end of Part 1.

## Part 1.—Derivation of New SIC Industries from Old SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number	Value added by manufacture, adjusted (\$1,000)
New SIC	Old SIC		Total	With 20 or more employees		
1911	1911	Guns, howitzers, and mortars.....	5	4	251	2,942
1921	1921	Artillery ammunition.....	25	17	4,028	26,811
1922	1922	Ammunition loading.....	6	4	1,189	8,985
1925	----	Complete guided missiles.....	26	26	108,431	1,153,021
	1929	Ammunition, nec.....	23	23	100,678	1,104,394
	----	All other industries <sup>1</sup> .....	3	3	7,753	48,627
1929	----	Ammunition, nec.....	19	16	6,114	51,231
	1929	Ammunition, nec.....	19	16	5,875	50,213
	----	All other industries <sup>1</sup> .....			239	1,018
1931	1931	Tanks and tank components.....	17	10	7,069	63,711
1941	----	Sighting and fire control equipment.....	25	20	45,506	457,757
	1941	Sighting and fire control equipment.....	25	20	44,571	448,724
	----	All other industries <sup>1</sup> .....			935	9,033
1951	1951	Small arms, 30 mm and under.....	34	23	8,010	51,005
1961	1961	Small arms ammunition.....	24	12	9,049	82,733
1999	1999	Ordnance and accessories, nec.....	47	22	15,297	162,190

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.

<sup>2</sup> These data are for a miscellaneous group of establishments that were classified in the industry because of (a) shifts in their product classification to conform to the new SIC and (b) classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>3</sup> Includes 1 establishment classified in the old Industry 2411, Logging Camps and Contractors.

<sup>4</sup> Includes 1 establishment previously classified in Industry 2394 and 1 establishment in Industry 2561, not shown separately in order to avoid disclosing figures for individual companies.

<sup>5</sup> Includes 19 establishments formerly in Industry 2899, Chemical Products, NEC, which were reclassified into Industry 2819 because of the change in definition of Industry 2819 to include establishments primarily engaged in the manufacture of chemical catalytic preparations.

<sup>6</sup> Includes 12 plants that were formerly classified in the old Industry 2842, Cleaning and Polishing Preparations, and 1 plant formerly classified in Industry 2851, Paint and Varnishes. This reclassification was caused by the transfer of paint and varnish removers and brush cleaners from old Industry 2842 to new Industry 2852.

<sup>7</sup> Includes establishments with 2,500 to 4,999 employees primarily engaged in producing synthetic sausage casings which were classified into this industry from old Industry 2013, Prepared Meats.

Represents establishments which produce seamless pipe from purchased materials. For years prior to 1958 such establishments were included in Industry 3312, but the 1957 edition of the SIC Manual classifies such establishments in Industry 3317 along with other establishments producing pipe and tubes from purchased materials. However, since the product data reported for steel pipe and tubes differentiated by type of pipe, e.g., standard, line, pressure, mechanical, etc., rather than by method of manufacture, it is possible that a few additional establishments may have been misclassified in the steel pipe and tubes industry which properly belonged in the Blast Furnaces and Steel Mills industry in the previous classification system.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2011	----	Meat packing plants.....	2,801	977	200,783	1,746,603
2013	----	Prepared meats.....	1,500	500	51,451	472,265
	2013	Prepared meats.....	1,480	493	48,184	435,995
	----	All other industries <sup>2</sup> .....	20	7	3,267	36,270
2015	2015	Poultry dressing plants.....	1,131	518	55,635	266,177
2021	----	Creamery butter.....	1,066	233	17,567	149,326
	2021	Creamery butter.....	1,058	228	17,295	147,207
	----	All other industries <sup>2</sup> .....	8	5	272	2,119
2022	----	Natural cheese.....	1,290	184	15,205	126,753
	2022	Natural cheese.....	1,195	158	13,351	106,949
	2026	Fluid milk.....	95	26	1,854	19,804
2023	----	Concentrated milk.....	296	194	12,495	180,372
	2023	Condensed and evaporated milk.....	289	189	12,091	176,022
	----	All other industries <sup>2</sup> .....	7	5	404	4,350
2024	----	Ice cream and ices.....	1,389	462	35,125	397,674
	2024	Ice cream and frozen desserts.....	1,379	453	34,487	392,765
	----	All other industries <sup>2</sup> .....	10	9	638	4,909
2025	----	Special dairy products.....	203	55	5,714	60,585
	2023	Condensed and evaporated milk.....	24	13	1,354	26,687
	2025	Special dairy products.....	107	35	3,571	23,923
	2026	Fluid milk.....	72	7	789	9,975
2027	----	Fluid milk and other products.....	5,628	2,184	207,602	1,948,875
	2026	Fluid milk.....	5,625	2,183	207,519	1,948,476
	----	All other industries <sup>2</sup> .....	3	1	83	399
2031	----	Canned seafood.....	252	142	12,696	87,749
	2031	Canned and cured seafoods.....	252	142	12,696	87,749
2032	----	Cured fish.....	81	26	2,017	12,493
	2031	Canned and cured seafoods.....	81	26	2,017	12,493
2033	----	Canned fruits and vegetables.....	1,652	966	123,473	1,243,376
	2032	Canned specialties.....	100	66	23,986	338,240
	2033	Canned fruits and vegetables.....	1,523	884	96,906	772,210
	2015	Poultry dressing plants.....	14	8	1,944	9,869
	2037	Frozen fruits and vegetables.....	2	2	(D)	(D)
	2086	Bottled and canned soft drinks.....	10	5	260	4,056
	----	All other industries <sup>2</sup> .....	3	1	(D)	(D)
2034	2034	Dehydrated fruits and vegetables.....	161	67	7,599	75,529
2035	----	Pickles and sauces.....	705	235	22,952	203,238
	2033	Canned fruits and vegetables.....	84	29	3,178	36,096
	2035	Pickles and sauces.....	621	205	19,500	164,624
	----	All other industries <sup>2</sup> .....		1	274	2,518
2036	2036	Packaged seafood.....	440	223	17,469	82,368
2037	----	Frozen fruits and vegetables.....	303	178	26,288	219,321
	2037	Frozen fruits and vegetables.....	297	173	25,370	209,444
	----	All other industries <sup>2</sup> .....	6	5	918	9,877
2041	2041	Flour and meal.....	814	250	28,215	393,053
2042	2042	Prepared animal feeds.....	2,379	715	57,313	798,892
2043	2043	Cereal breakfast foods.....	43	25	10,927	243,088
2044	2044	Rice milling.....	72	51	3,843	53,152
2045	2045	Flour mixes.....	117	30	4,894	118,073
2051	2051	Bread and related products.....	5,985	2,149	256,963	2,111,820
2052	2052	Biscuit and crackers.....	299	180	42,983	505,618
2061	2061	Raw cane sugar.....	50	44	3,011	21,841
2062	2062	Cane sugar refining.....	28	25	15,213	184,824
2063	2063	Beet sugar.....	66	66	10,324	150,393
2071	2071	Confectionery products.....	1,367	411	65,722	507,783

See footnotes at end of Part 2.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2072	2072	Chocolate and cocoa products.....	28	25	8,271	135,098
2073	2073	Chewing gum.....	26	15	5,344	102,280
2081	----	Bottled soft drinks.....	4,357	1,407	96,143	840,971
	2086	Bottled and canned soft drinks.....	4,352	1,406	96,087	840,632
	----	All other industries <sup>2</sup> .....	5	1	56	339
2082	2082	Beer and ale.....	258	224	71,494	1,114,590
2083	2083	Malt.....	46	34	2,404	55,087
2084	2084	Wines and brandy.....	239	73	5,941	114,242
2085	2085	Distilled liquor, except brandy.....	122	91	20,528	444,831
2091	----	Leavening compounds.....	39	22	2,391	58,809
	2099	Food preparations, nec.....	39	22	2,391	58,809
2092	----	Shortening and cooking oils.....	91	52	9,578	160,461
	2096	Shortening and cooking oils.....	69	50	9,419	158,256
	----	All other industries <sup>2</sup> .....	22	2	159	2,205
2093	----	Margarine.....	34	28	2,699	56,490
	2096	Shortening and cooking oils.....	34	28	2,699	56,490
2094	----	Corn wet milling.....	59	26	13,792	249,435
	2046	Wet corn milling.....	59	26	13,792	249,435
2095	2087	Flavorings.....	527	94	9,446	262,025
2097	2097	Manufactured ice.....	1,570	170	14,557	107,527
2098	2098	Macaroni and spaghetti.....	214	76	6,825	67,130
2099	----	Food preparations, nec.....	2,925	862	86,312	1,173,897
	2015	Poultry dressing plants.....	79	66	4,490	30,923
	2032	Canned specialties.....	7	3	200	2,607
	2052	Biscuit and crackers.....	35	23	1,350	16,872
	2071	Confectionery products.....	23	10	665	3,905
	2099	Food preparations, nec.....	2,642	670	65,448	1,005,663
	2037	Frozen fruits and vegetables.....				
	----	All other industries <sup>2</sup> .....	139	90	14,159	113,927
2111	2111	Cigarettes.....	19	16	33,832	1,058,554
2121	2121	Cigars.....	283	114	29,350	183,140
2131	2131	Chewing and smoking tobacco.....	58	28	6,348	86,188
2141	2141	Tobacco stemming and redrying.....	144	122	14,937	85,578
2211	2297	Scouring and combing plants.....	81	46	6,075	36,073
2212	----	Yarn mills, wool, except carpet.....	132	114	15,809	88,101
	2281	Yarn mills, except wool.....	17	17	3,743	22,689
	2283	Wool yarn mills.....	111	96	12,009	65,197
	----	All other industries <sup>2</sup> .....	4	1	57	215
2213	----	Woolen and worsted fabrics.....	308	228	49,326	292,706
	2231	Weaving, finishing mills, wool.....	305	227	49,252	292,365
	----	All other industries <sup>2</sup> .....	3	1	74	341
2216	----	Finishing wool textiles.....	74	44	4,771	32,383
	2231	Weaving, finishing mills, wool.....	74	44	4,771	32,383
2222	----	Yarn throwing mills.....	117	88	9,085	50,902
	2282	Throwing and winding mills.....	117	88	9,085	50,902
2223	2284	Thread mills.....	86	49	11,213	62,965
2224	----	Yarn mills, cotton system.....	359	311	75,538	337,461
	2281	Yarn mills, except wool.....	316	282	61,929	259,114
	2296	Tire cord and fabric.....	23	23	12,214	69,844
	2282	Throwing and winding mills.....			178	1,085
	----	All other industries <sup>2</sup> .....	20	6	1,217	7,418
2233	----	Cotton broad-woven fabrics.....	492	394	242,451	1,073,743
	2211	Weaving mills, cotton.....	489	393	242,145	1,070,569
	----	All other industries <sup>2</sup> .....	3	1	306	3,174
2234	----	Synthetic broad-woven fabrics.....	404	312	82,583	473,226
	2221	Weaving mills, synthetics.....	401	310	81,688	468,583
	----	All other industries <sup>2</sup> .....	3	2	895	4,643
2241	----	Narrow fabric mills.....	490	243	24,633	142,871
	2241	Narrow fabric mills.....	490	243	24,587	142,638
	----	All other industries <sup>2</sup> .....			46	233

See footnotes at end of Part 2.



## Part 2—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2251	2251	Full-fashioned hosiery mills.....	432	241	33,687	172,996
2252	2252	Seamless hosiery mills.....	659	489	69,483	290,825
2253	2253	Knit outerwear mills.....	1,120	632	60,603	339,582
2254	2254	Knit underwear mills.....	140	122	27,918	135,703
2255	----	Knit glove mills.....	24	19	1,808	6,710
	2259	Knitting mills, nec.....	24	19	1,808	6,710
2256	2256	Knit fabric mills.....	357	181	18,356	147,394
2259	2259	Knitting mills, nec.....	51	19	1,422	7,833
2261	----	Finishing textiles, except wool.....	809	393	73,553	457,962
	2261	Finishing plants, cotton.....	446	174	49,212	289,115
	2262	Finishing plants, synthetics.....	197	132	16,185	114,825
	2269	Dyeing and finishing textiles, nec.....	155	79	7,808	52,005
	----	All other industries <sup>2</sup> .....	11	8	348	2,017
2271	----	Wool carpets and rugs.....	115	86	24,995	180,247
	2271	Woven carpets and rugs.....	52	39	17,491	125,514
	2272	Tufted carpets and rugs.....	13	9	1,267	(D)
	2279	Carpets and rugs, nec.....	3	2	989	(D)
	2281	Yarn mills, except wool.....	11	10	1,297	5,824
	2283	Wool yarn mills.....	36	26	3,951	25,966
2273	----	Carpets and rugs, except wool.....	214	122	13,921	112,009
	2271	Woven carpets and rugs.....	17	8	660	2,930
	2272	Tufted carpets and rugs.....	79	63	10,261	(D)
	2279	Carpets and rugs, nec.....	118	51	3,000	(D)
2274	----	Hard-surface floor coverings.....	16	16	8,091	93,411
	3982	Hard-surface floor coverings.....			7,999	93,145
	----	All other industries <sup>2</sup> .....	16	16	92	266
2281	----	Fur-felt hats and hat bodies.....	64	36	6,278	37,507
	2352	Hats and caps.....	53	36	6,221	37,222
	----	All other industries <sup>2</sup> .....	11	...	57	285
2282	----	Wool-felt hats and hat bodies.....	23	9	1,809	8,405
	2352	Hats and caps.....	16	9	1,782	8,265
	----	All other industries <sup>2</sup> .....	7	...	27	140
2283	----	Straw hats.....	37	24	2,058	10,010
	2352	Hats and caps.....	33	24	2,026	9,920
	----	All other industries <sup>2</sup> .....	4	...	32	90
2284	----	Hatter's fur.....	25	8	612	3,421
	2398	Trimmings and stitching.....	25	8	612	3,421
2291	2291	Felt goods, nec.....	66	28	4,573	44,443
2292	----	Lace goods.....	211	68	6,769	34,698
	2292	Lace goods.....	208	66	6,689	34,247
	----	All other industries <sup>2</sup> .....	3	2	80	451
2293	2293	Padding and upholstery filling.....	196	83	7,139	57,303
2294	2294	Processed textile waste.....	183	68	4,607	31,100
2295	----	Coated fabric, except rubberized.....	128	66	10,527	103,213
	2295	Coated fabric, not rubberized.....			10,182	100,420
	----	All other industries <sup>2</sup> .....	128	66	345	2,793
2298	2298	Cordage and twine.....	147	71	9,583	65,106
2299	----	Textile goods, nec.....	175	72	10,119	74,919
	2299	Textile goods, nec.....	138	49	7,862	60,841
	2282	Throwing and winding mills.....			2,245	13,948
	----	All other industries <sup>2</sup> .....	37	23	12	130
2311	2311	Men's and boys' suits and coats.....	1,353	757	121,857	641,292
2312	----	Suit and coat findings.....	93	44	2,420	13,549
	2398	Trimmings and stitching.....	93	44	2,420	13,549
2321	2321	Men's dress shirts and nightwear.....	880	606	103,596	421,876
2322	----	Men's and boys' underwear.....	94	75	12,487	51,984
	2322	Men's and boys' underwear.....	91	73	12,326	51,621
	----	All other industries <sup>2</sup> .....	3	2	161	363
2323	2323	Men's and boys' neckwear.....	360	110	7,663	48,692

See footnotes at end of Part 2.

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2325	----	Men's and boys' cloth hats.....	346	101	7,746	36,160
	2352	Hats and caps.....	346	101	{ 7,672	35,891
	----	All other industries <sup>2</sup> .....				
2326	----	Hat and cap materials.....	42	8	623	4,033
	2398	Trimmings and stitching.....	42	8	623	4,033
2327	----	Separate trousers.....	748	366	51,592	208,684
	2327	Separate trousers.....	744	363	51,365	207,866
	----	All other industries <sup>2</sup> .....	4	3	227	818
2328	----	Work shirts.....	50	40	6,282	20,482
	2328	Work clothing.....	50	40	6,282	20,482
2329	----	Men's and boys' clothing, nec.....	989	680	90,890	384,950
	2328	Work clothing.....	450	356	58,498	234,999
	2329	Men's and boys' clothing, nec.....	539	324	32,392	149,951
2331	2331	Blouses.....	1,236	722	46,317	189,265
2333	----	Dresses, unit price.....	3,700	2,346	135,606	765,236
	2335	Women's dresses.....	3,700	2,346	135,606	765,236
2334	----	Dresses, dozen price.....	1,204	665	57,273	246,244
	2335	Women's dresses.....	953	553	49,111	205,727
	2339	Women's outerwear, nec.....	251	112	8,162	40,517
2337	----	Women's suits, coats, and skirts.....	2,685	1,350	84,159	514,947
	2337	Women's suits, coats, and skirts.....	2,685	1,350	{ 84,145	514,901
	----	All other industries <sup>2</sup> .....				
2338	----	Women's neckwear and scarfs.....	88	21	1,447	8,300
	2339	Women's outerwear, nec.....	88	21	1,447	8,300
2339	----	Women's outerwear, nec.....	840	433	35,221	189,680
	2331	Women's blouses.....	24	13	1,167	10,899
	2339	Women's outerwear, nec.....	816	420	34,054	178,781
2341	2341	Women's and children's underwear.....	1,231	720	73,527	347,705
2342	----	Corsets and allied garments.....	423	284	38,144	249,974
	2342	Corsets and allied garments.....	414	279	37,808	248,543
	2389	Apparel, nec.....	6	3	253	1,170
	3842	Surgical appliances and supplies.....	3	2	83	261
2351	2351	Millinery.....	803	284	17,838	109,133
2361	2361	Children's dresses.....	779	473	34,685	160,628
2363	2363	Children's coats.....	370	210	12,798	68,205
2369	----	Children's outerwear, nec.....	779	391	33,326	152,516
	2361	Children's dresses.....	23	14	1,438	6,466
	2369	Children's outerwear, nec.....	756	377	31,888	146,050
2371	2371	Fur goods.....	1,651	78	9,355	95,411
2381	----	Fabric dress gloves.....	101	44	4,176	19,299
	2381	Fabric dress and work gloves.....	101	44	4,176	19,299
2382	----	Fabric work gloves.....	127	86	9,765	34,631
	2381	Fabric dress and work gloves.....	127	86	9,765	34,631
2383	----	Suspenders and garters.....	40	9	797	3,982
	2389	Apparel, nec.....	40	9	797	3,982
2384	2384	Robes and dressing gowns.....	278	155	10,625	56,442
2385	----	Waterproof outer garments.....	279	138	13,395	73,859
	2385	Waterproof outer garments.....	279	138	{ 13,159	73,070
	----	All other industries <sup>2</sup> .....				
2386	2386	Leather and sheeplined clothing.....	154	71	4,626	27,847
2387	----	Belts.....	457	146	10,222	53,994
	2387	Apparel belts.....	457	146	{ 10,150	53,726
	----	All other industries <sup>2</sup> .....				
2388	----	Handkerchiefs.....	83	35	2,536	14,535
	2389	Apparel, nec.....	83	35	2,536	14,535
2389	----	Apparel, nec.....	182	46	3,954	21,622
	2389	Apparel, nec.....	182	46	{ 3,939	21,575
	----	All other industries <sup>2</sup> .....				

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code			Establishments, number		All employees, number	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2391	2391	Curtains and draperies.....	781	205	16,325	87,053
2392	----	Housefurnishings, nec.....	1,209	396	37,005	219,425
	2392	Housefurnishings, nec.....	1,205	393	36,769	218,295
	----	All other industries <sup>2</sup> .....	4	3	236	1,130
2393	2393	Textile bags.....	237	101	9,114	51,638
2394	----	Canvas products.....	853	125	9,902	53,820
	2394	Canvas products.....	853	125	{ 9,875	{ 53,696
	----	All other industries <sup>2</sup> .....				
2395	----	Tucking, pleating, and stitching.....	448	70	5,042	23,929
	2398	Trimnings and stitching.....	448	70	5,042	23,929
2396	----	Trimnings and art goods.....	739	178	16,557	94,700
	2398	Trimnings and stitching.....	739	178	16,557	94,700
2397	----	Schiffli machine embroideries.....	707	49	5,807	44,581
	2397	Schiffli machine embroideries.....	703	48	5,739	44,311
	----	All other industries <sup>2</sup> .....	4	1	68	270
2398	----	Embroideries, except Schiffli.....	832	102	7,458	37,054
	2398	Trimnings and stitching.....	832	102	7,458	37,054
2399	----	Fabricated textile products, nec.....	1,009	242	18,283	104,304
	2231	Weaving, finishing mills, wool.....	85	35	1,723	10,709
	2399	Textile products, nec.....	912	206	16,476	92,428
	3717	Motor vehicles and parts.....	8	1	61	659
	----	All other industries <sup>2</sup> .....	4	...	23	508
2411	----	Logging camps and contractors.....	12,793	550	71,367	386,625
	2411	Logging camps and contractors.....	12,782	550	71,309	386,421
	----	All other industries <sup>2</sup> .....	11	...	58	204
2421	----	Sawmills and planing mills.....	16,046	2,709	268,496	1,292,640
	2421	Sawmills and planing mills.....	15,623	2,483	245,032	1,189,360
	2426	Hardwood dimension and flooring.....	340	209	21,546	93,429
	2429	Special product sawmills, nec.....	38	...	251	1,495
	2411	Logging camps and contractors.....	23	4	196	997
	----	All other industries <sup>2</sup> .....	22	13	1,471	7,359
2422	----	Veneer mills.....	288	206	13,103	75,116
	2432	Veneer and plywood plants.....	288	206	13,103	75,116
2423	----	Shingle mills.....	219	40	2,731	17,159
	2429	Special product sawmills, nec.....	219	40	2,731	17,159
2424	----	Cooperage stock mills.....	156	44	2,958	10,499
	2429	Special product sawmills, nec.....	156	44	2,958	10,499
2425	----	Excelsior mills.....	65	21	1,236	6,970
	2429	Special product sawmills, nec.....	65	21	1,236	6,970
2431	----	Millwork plants.....	3,021	713	61,441	410,623
	2431	Millwork plants.....	2,991	700	60,511	404,364
	2499	Wood products, nec.....	18	6	318	2,460
	----	All other industries <sup>2</sup> .....	12	7	612	3,799
2432	----	Plywood plants.....	313	257	47,706	326,756
	2432	Veneer and plywood plants.....	293	242	45,832	312,068
	2499	Wood products, nec.....	20	15	{ 1,594	{ 12,870
	----	All other industries <sup>2</sup> .....				
2433	2433	Prefabricated wood products.....	374	150	13,550	122,344
2441	----	Fruit and vegetable baskets.....	99	61	5,256	17,722
	2443	Veneer and plywood containers.....	99	61	5,256	17,722
2442	----	Rattan and willow ware.....	54	16	1,368	6,183
	2499	Wood products, nec.....	36	14	1,246	5,663
	2442	Wire bound boxes and crates.....	18	2	122	520
2443	----	Cigar boxes.....	7	3	220	1,053
	2441	Nailed wooden boxes and shook.....	7	3	220	1,053

See footnotes at end of Part 2.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2444	----	Wooden boxes.....	944	306	28,884	138,065
	2441	Nailed wooden boxes.....	858	245	19,480	94,875
	2442	Wirebound boxes and crates.....	80	57	9,244	42,589
	2443	Veneer and plywood containers.....	6	4	160	601
2445	2445	Cooperage.....	190	35	3,871	19,843
2491	2491	Wood preserving.....	306	148	10,933	72,508
2492	----	Lasts and related products.....	65	27	2,024	15,307
	2499	Wood products, nec.....	65	27	2,024	15,307
2493	----	Mirror and picture frames.....	346	58	5,738	37,643
	2499	Wood products, nec.....	346	58	5,738	37,643
2499	----	Wood products, nec.....	2,311	521	37,757	193,234
	2426	Hardwood dimension and flooring.....	96	54	3,594	16,925
	2499	Wood products, nec.....	2,206	464	34,035	175,711
	----	All other industries <sup>2</sup> .....	9	3	128	598
2511	----	Wood house furniture, not upholstered.....	2,816	931	125,263	704,278
	2511	Wood furniture, not upholstered.....	2,810	930	125,192	704,018
	----	All other industries <sup>2</sup> .....	6	1	71	260
2512	----	Upholstered household furniture.....	1,922	771	67,655	432,194
	2512	Wood furniture, upholstered.....	1,756	682	61,442	391,058
	2515	Mattresses and bedsprings.....	163	88	6,186	40,957
	----	All other industries <sup>2</sup> .....	3	1	27	179
2514	----	Metal household furniture.....	627	273	30,704	218,989
	2514	Metal household furniture.....	623	271	30,623	218,373
	----	All other industries <sup>2</sup> .....	4	2	81	616
2515	2515	Mattresses and bedsprings.....	1,052	289	25,517	207,844
2519	----	Household furniture, nec.....	93	33	2,215	16,304
	2519	Household furniture, nec.....	93	33	2,186	16,122
	----	All other industries <sup>2</sup> .....	93	33	29	182
2521	2521	Wood office furniture.....	150	56	5,821	38,427
2522	2522	Metal office furniture.....	151	88	17,469	173,673
2531	----	Public-building furniture.....	388	146	16,052	113,785
	2531	Public-building furniture.....	388	146	15,081	112,088
	----	All other industries <sup>2</sup> .....	388	146	211	1,697
2532	----	Professional furniture.....	94	50	7,431	57,786
	3841	Surgical and medical instruments.....	25	22	1,579	12,506
	----	All other industries <sup>2</sup> .....	69	28	5,852	45,280
2541	----	Partitions and fixtures.....	1,848	428	37,853	305,196
	254-	Partitions and fixtures.....	1,844	425	37,526	300,218
	----	All other industries <sup>2</sup> .....	4	3	327	4,978
2561	----	Window and door screens.....	272	54	4,628	37,803
	2431	Millwork plants.....	168	11	1,200	7,680
	3442	Metal doors, sash, and trim.....	100	42	3,403	29,972
	----	All other industries <sup>2</sup> .....	4	1	25	151
2562	----	Window shades.....	287	26	4,692	40,456
	2591	Venetian blinds and shades.....	287	26	4,692	40,456
2563	----	Venetian blinds.....	561	57	6,465	42,766
	2591	Venetian blinds and shades.....	561	57	6,465	42,766
2591	----	Restaurant furniture.....	172	45	3,187	23,844
	2599	Furniture and fixtures, nec.....	168	43	3,102	23,024
	----	All other industries <sup>2</sup> .....	4	2	85	820
2599	2599	Furniture and fixtures, nec.....	84	29	2,823	22,335
2611	----	Pulp mills.....	69	52	14,631	207,305
	2611	Pulp mills.....	59	48	14,171	196,026
	2661	Gum and wood chemicals.....	10	4	460	11,279
2612	----	Paper and paperboard mills.....	606	568	188,420	2,381,875
	2621	Paper mills, except building.....	354	318	131,334	1,541,818
	2631	Paperboard mills.....	252	250	57,086	840,057
2613	2661	Building paper and board mills.....	129	96	20,363	213,369

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2641	----	Paper coating and glazing.....	302	155	24,976	288,724
	2641	Paper coating and glazing.....	298	152	24,462	283,869
	----	All other industries <sup>2</sup> .....	4	3	514	4,855
2651	----	Envelopes.....	207	146	17,767	138,416
	2642	Envelopes.....	207	146	{ 17,757 10	{ 138,318 98
	----	All other industries <sup>2</sup> .....				
2661	----	Paper bags.....	510	250	38,574	305,268
	2643	Bags, except textile bags.....	458	249	38,279	303,587
	----	All other industries <sup>2</sup> .....	52	1	295	1,681
2671	----	Paperboard boxes.....	1,846	1,202	140,713	1,115,617
	2651	Folding paperboard boxes.....	514	341	46,389	391,031
	2652	Set-up paperboard boxes.....	527	347	23,532	124,892
	2653	Corrugated shipping containers.....	759	489	69,141	582,416
	2655	Fiber cans, tubes, drums, etc.....	9	3	358	2,423
	----	All other industries <sup>2</sup> .....	37	22	1,293	14,855
2674	----	Fiber cans, tubes, drums, etc.....	189	109	10,613	77,125
	2655	Corrugated shipping containers.....	189	109	10,613	77,125
2691	----	Die-cut paper and board.....	371	118	11,843	106,924
	2645	Die-cut paper and board.....	371	118	{ 11,798 45	{ 106,783 141
	----	All other industries <sup>2</sup> .....				
2693	2644	Wallpaper.....	73	29	2,806	21,463
2694	----	Pulp goods, pressed and molded.....	55	28	4,472	49,819
	2646	Pressed and molded pulp goods.....	55	28	4,472	49,819
2699	----	Paper and board products, nec.....	981	516	81,298	802,626
	2641	Paper coating and glazing.....	38	21	2,257	28,377
	2649	Paper and board products, nec.....	726	313	43,181	412,206
	2653	Corrugated shipping containers.....	46	25	1,651	14,518
	2654	Sanitary food containers.....	136	125	29,493	309,224
	2751	Printing: letterpress.....	28	25	3,409	29,184
	2752	Printing: lithographic.....	4	4	373	2,689
	----	All other industries <sup>2</sup> .....	3	3	934	6,428
2711	2711	Newspapers.....	8,250	1,724	294,258	2,516,921
2721	2721	Periodicals.....	2,323	387	66,028	932,554
2731	2731	Books: publishing.....	903	233	40,069	616,241
2732	2732	Book printing.....	791	205	28,625	226,793
2741	2741	Miscellaneous publishing.....	1,105	164	19,870	206,851
2751	----	Commercial printing.....	13,160	1,710	198,425	1,587,832
	2751	Printing: letterpress.....	12,835	1,580	183,380	1,435,990
	2752	Printing: lithographic.....	36	7	487	4,063
	2761	Manifold business forms.....	273	115	14,042	143,649
	----	All other industries <sup>2</sup> .....	16	8	516	4,130
2761	----	Lithographing.....	4,248	1,086	98,035	885,276
	2751	Printing: letterpress.....	125	31	1,651	12,522
	2752	Printing: lithographic.....	3,703	1,015	88,808	790,501
	2761	Manifold business forms.....	411	37	7,351	80,934
	----	All other industries <sup>2</sup> .....	9	3	225	1,319
2771	2771	Greeting cards.....	282	100	21,777	178,563
2781	----	Bookbinding.....	757	227	17,898	105,032
	2789	Bookbinding and related work.....	757	227	{ 17,894 4	{ 105,021 11
	----	All other industries <sup>2</sup> .....				
2782	----	Blankbooks and paper ruling.....	310	110	10,840	83,239
	2761	Manifold business forms.....	18	13	2,199	20,383
	2782	Blankbooks; looseleaf binders.....	289	95	8,141	59,244
	----	All other industries <sup>2</sup> .....	3	2	500	3,612
2783	----	Looseleaf binders and devices.....	138	65	9,150	69,594
	2782	Blankbooks; looseleaf binders.....	136	64	9,079	69,159
	----	All other industries <sup>2</sup> .....	2	1	71	435

See footnotes at end of Part 2.

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2789	----	Miscellaneous bookbinding work.....	215	67	4,290	27,858
	2789	Bookbinding and related work.....	213	65	4,152	26,957
	----	All other industries <sup>2</sup> .....	2	2	138	901
2791	2791	Typesetting.....	1,188	247	18,011	155,123
2792	2753	Engraving and plate printing.....	528	102	9,047	64,471
2793	2793	Photoengraving.....	914	272	17,251	172,158
2794	2794	Electrotyping and stereotyping.....	226	111	6,759	62,675
2811	----	Sulfuric acid.....	50	38	3,455	72,649
	2819	Inorganic chemicals, nec.....	50	38	3,455	72,649
2812	2812	Alkalies and chlorine.....	34	32	20,476	306,187
2819	2819	Inorganic chemicals, nec.....	509	251	84,909	1,369,179
2821	2814	Cyclic (coal tar) crudes.....	45	23	2,084	29,993
2822	----	Intermediates and organic colors.....	115	87	26,218	373,106
	2815	Intermediate coal tar products.....	115	87	26,218	373,106
2823	2821	Plastics materials.....	343	195	50,781	863,991
2824	2822	Synthetic rubber.....	18	17	9,252	197,866
2825	----	Synthetic fiber.....	42	41	61,496	837,667
	2823	Cellulosic man-made fibers.....	26	26	42,597	390,310
	2824	Organic fibers, noncellulosic.....	16	15	18,684	439,638
	----	All other industries <sup>2</sup> .....			215	7,719
2826	2892	Explosives.....	77	58	14,971	131,646
2829	----	Organic chemicals, nec.....	350	193	78,321	1,687,452
	2818	Organic chemicals, nec.....	331	183	77,178	1,664,419
	2843	Surface active agents.....	19	10	743	16,850
	----	All other industries <sup>2</sup> .....			400	6,183
2831	2831	Biological products.....	116	35	3,692	38,947
2832	} ----	Medicinal chemicals (including botanicals).....	129	50	10,246	175,817
2833		Medicinals and botanicals.....	129	50	10,246	175,817
2834	----	Pharmaceutical preparations.....	1,116	318	82,027	1,887,397
	2834	Pharmaceutical preparations.....	1,113	317	81,961	1,877,091
	----	All other industries <sup>2</sup> .....	3	1	66	10,306
2841	----	Soap and glycerin.....	251	78	20,722	657,005
	2841	Soap and other detergents.....	245	76	20,638	655,669
	----	All other industries <sup>2</sup> .....	6	2	84	1,336
2842	----	Cleaning and polishing preparations.....	1,295	238	21,569	435,367
	2841	Soap and other detergents.....	359	85	8,880	201,431
	2842	Polishes and sanitation goods.....	901	137	11,754	218,852
	2843	Surface active agents.....	20	9	528	8,799
	2852	Putty and calking compounds.....	12	5	330	5,554
	----	All other industries <sup>2</sup> .....	3	2	77	731
2843	----	Sulfonated oils and assistants.....	105	28	1,799	25,847
	2843	Surface active agents.....	105	28	1,796	25,687
	----	All other industries <sup>2</sup> .....			3	160
2851	----	Paints and varnishes.....	1,593	579	57,106	784,352
	2851	Paints and varnishes.....	1,593	579	57,034	783,285
	----	All other industries <sup>2</sup> .....			72	1,067
2852	----	Inorganic color pigments.....	96	57	11,531	238,050
	2816	Inorganic pigments.....	96	57	11,261	234,294
	----	All other industries <sup>2</sup> .....			270	3,756
2853	----	Whiting and fillers.....	107	18	1,393	17,698
	2852	Putty and calking compounds.....	107	18	1,334	16,989
	----	All other industries <sup>2</sup> .....			59	709
2861	----	Hardwood distillation.....	50	12	1,776	10,752
	2861	Gum and wood chemicals.....	50	12	1,776	10,752
2862	----	Softwood distillation.....	79	14	4,193	54,172
	2861	Gum and wood chemicals.....	79	14	4,193	54,172

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
2865	----	Gum naval stores.....	24	8	467	5,063
	2861	Gum and wood chemicals.....	24	8	467	5,063
2865	----	Tanning and dyeing materials.....	27	3	355	4,036
	2861	Gum and wood chemicals.....	27	3	355	4,036
2871	2871	Fertilizers.....	283	205	18,728	197,943
2872	2872	Fertilizers, mixing only.....	685	202	12,161	105,845
2881	2091	Cottonseed oil mills.....	214	163	8,355	63,587
2882	----	Linseed oil mills.....	9	8	1,055	17,832
	2093	Vegetable oil mills, nec.....	9	8	1,055	17,832
2883	----	Soybean oil mills.....	100	85	8,142	149,909
	2092	Soybean oil mills.....	100	85	7,985 157	138,937 10,972
	----	All other industries <sup>2</sup> .....				
2884	----	Vegetable oil mills, nec.....	34	11	1,076	13,703
	2093	Vegetable oil mills, nec.....	34	11	1,076	13,703
2886	----	Grease and tallow.....	531	169	12,072	125,605
	2094	Grease and tallow.....	513	167	11,857	122,579
	----	All other industries <sup>2</sup> .....	18	2	215	3,026
2887	2894	Fatty acids.....	12	12	1,558	20,594
2889	2095	Animal oils, nec.....	75	36	2,153	23,985
2891	2893	Printing ink.....	302	94	7,960	108,803
2892	----	Essential oils.....	25	9	899	16,533
	2899	Chemical preparations, nec.....	25	9	899	16,533
2893	2844	Toilet preparations.....	745	179	29,375	686,540
2894	2891	Glue and gelatin.....	242	78	6,853	85,048
2895	----	Carbon black.....	42	34	3,278	74,019
	2895	Carbon black.....	36	32	3,162	72,641
	----	All other industries <sup>2</sup> .....	6	2	116	1,378
2896	----	Compressed and liquefied gases.....	491	177	10,642	174,249
	2813	Industrial gases.....	491	177	10,642	174,249
2897	----	Insecticides and fungicides.....	299	86	6,467	84,589
	2873	Agricultural pesticides.....	296	84	6,247	78,385
	----	All other industries <sup>2</sup> .....	3	2	220	6,204
2898	----	Salt.....	39	24	4,167	59,251
	2899	Chemical preparations, nec.....	39	24	4,167	59,251
2899	----	Chemical products, nec.....	1,501	259	26,105	432,463
	2842	Polishes and sanitation goods.....	249	48	4,318	72,831
	2873	Agricultural pesticides.....	38	15	1,481	31,908
	2891	Glue and gelatin.....	31	14	1,015	20,902
	2899	Chemical preparations, nec.....	1,149	164	17,941	278,660
	3951	Pens and mechanical pencils.....	5	2	222	1,928
	----	All other industries <sup>2</sup> .....	29	16	1,128	26,234
2911	2911	Petroleum refining.....	446	313	146,025	2,119,402
2951	2951	Paving mixtures and blocks.....	563	89	7,797	112,548
2952	2952	Roofing felts and coatings.....	209	128	15,520	159,449
2992	2992	Lubricants, nec.....	306	90	7,568	103,084
2999	2999	Petroleum and coal products, nec.....	84	33	2,256	26,903
3011	3011	Tires and inner tubes.....	62	55	87,246	1,155,205
3021	3021	Rubber footwear.....	27	26	20,559	149,608
3031	3031	Reclaimed rubber.....	16	14	2,215	20,843
3099	----	Rubber industries, nec.....	1,138	590	122,114	1,026,006
	3011	Tires and inner tubes.....	61	31	2,149	24,752
	3069	Fabricated rubber products, nec.....	1,074	558	119,565	997,254
	----	All other industries <sup>2</sup> .....	3	1	400	4,000
3111	3111	Leather tanning and finishing.....	578	280	37,130	275,796
3121	3121	Industrial leather belting.....	104	32	3,975	36,300
3131	3131	Footwear cut stock.....	513	234	17,937	97,850
3141	3141	Footwear, except rubber.....	1,115	887	215,311	1,086,260
3142	3142	House slippers.....	164	97	11,520	59,656
3151	----	Leather dress gloves.....	104	48	4,086	16,680
	3151	Leather gloves.....	104	48	3,935 151	16,171 509
	----	All other industries <sup>2</sup> .....				
3152	----	Leather work gloves.....	76	28	2,166	8,598
	3151	Leather gloves.....	76	28	2,166	8,598

See footnotes at end of Part 2.

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3161	----	Luggage.....	428	152	15,609	96,304
	3161	Luggage.....	411	147	15,226	93,705
	3172	Small leather goods.....	17	5	383	2,599
3171	----	Hand bags and purses.....	622	264	22,109	112,107
	3171	Hand bags and purses.....	622	264	{ 21,953	{ 111,496
	----	All other industries <sup>2</sup> .....				
					156	611
3172	3172	Small leather goods.....	237	67	7,534	43,080
3192	----	Saddlery, harness, and whips.....	100	12	1,271	6,775
	3199	Leather goods, nec.....	100	12	1,271	6,775
3199	3199	Leather goods, nec.....	333	62	4,134	24,452
3211	3211	Flat glass.....	32	31	21,179	263,151
3221	----	Glass containers.....	102	93	55,272	537,230
	3221	Glass containers.....	102	93	{ 54,937	{ 532,469
	----	All other industries <sup>2</sup> .....				
					335	4,761
3229	3229	Pressed and blown glass, nec.....	140	98	37,108	312,342
3231	3231	Products of purchased glass.....	1,024	236	23,516	238,882
3241	----	Cement, hydraulic.....	177	170	41,141	725,032
	3241	Cement, hydraulic.....	177	170	{ 41,127	{ 724,771
	----	All other industries <sup>2</sup> .....				
					14	261
3251	----	Brick and hollow tile.....	572	432	31,396	199,090
	3251	Brick and structural tile.....	569	430	31,087	196,890
	----	All other industries <sup>2</sup> .....	3	2	309	2,200
3253	----	Floor and wall tile.....	86	58	12,482	88,442
	3253	Ceramic wall and floor tile.....	86	58	12,482	88,442
3254	----	Sewer pipe.....	69	67	9,969	68,409
	3259	Structural clay products, nec.....	69	67	9,969	68,409
3255	3255	Clay refractories.....	167	117	12,394	104,898
3259	----	Structural clay products, nec.....	126	53	4,143	30,117
	3253	Ceramic wall and floor tile.....	4	4	586	4,337
	3259	Structural clay products, nec.....	122	49	3,557	25,780
3261	3261	Vitreous plumbing fixtures.....	49	43	9,677	87,293
3262	3262	Vitreous-china food utensils.....	29	24	7,640	42,355
3263	3263	Earthenware food utensils.....	34	26	8,555	34,170
3264	3264	Porcelain electrical supplies.....	59	44	9,107	66,074
3265	----	China decorating for the trade.....	36	4	370	2,424
	3269	Pottery products, nec.....	36	4	370	2,424
3269	3269	Pottery products, nec.....	548	104	8,870	51,596
3271	----	Concrete products.....	5,270	963	69,597	585,115
	3271	Concrete block and brick.....	1,796	336	22,766	190,355
	3272	Concrete products.....	3,455	616	46,182	390,378
	----	All other industries <sup>2</sup> .....	19	11	649	4,382
3272	3275	Gypsum products.....	123	62	11,425	216,978
3273	3273	Ready-mixed concrete.....	3,624	931	61,109	669,931
3274	----	Lime.....	139	78	7,237	74,101
	3274	Lime.....	139	78	{ 7,185	{ 73,597
	----	All other industries <sup>2</sup> .....				
					52	504
3275	3296	Mineral wool.....	95	61	11,831	132,533
3281	3281	Cut-stone and stone products.....	1,001	243	20,348	129,038
3291	----	Abrasive products.....	356	130	23,980	278,026
	3291	Abrasive products.....	356	130	{ 23,955	{ 277,706
	----	All other industries <sup>2</sup> .....				
					25	320
3292	3292	Asbestos products.....	109	80	21,292	235,487
3293	3293	Gaskets and asbestos insulations.....	282	99	13,494	105,211
3295	3295	Minerals: ground or treated.....	386	100	7,557	104,682
3297	----	Nonclay refractories.....	89	71	8,459	111,408
	3297	Nonclay refractories.....	83	66	7,995	102,238
	----	All other industries <sup>2</sup> .....	6	5	464	9,170

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3298	----	Statuary and art goods.....	145	19	1,254	7,263
	3299	Nonmetallic minerals, nec.....	145	19	1,254	7,263
3299	----	Nonmetallic mineral products, nec.....	148	39	3,503	29,578
	3296	Mineral wool.....	39	7	441	4,868
	3299	Nonmetallic minerals, nec.....	109	32	3,062	24,710
3312	----	Steel works and rolling mills.....	295	264	512,831	6,085,776
	3312	Blast furnaces and steel mills.....	291	260	511,392	6,062,227
	3317	Steel pipe and tubes.....	4	4	1,439	23,549
3313	3313	Electrometallurgical products.....	37	35	12,689	178,880
3321	3321	Gray-iron foundries.....	1,297	843	112,263	807,480
3322	3322	Malleable-iron foundries.....	80	73	19,949	125,473
3323	3323	Steel foundries.....	256	216	49,133	383,870
3331	3331	Primary copper.....	30	29	14,561	158,122
3332	3332	Primary lead.....	13	13	3,563	36,325
3333	3333	Primary zinc.....	20	20	8,923	71,653
3334	3334	Primary aluminum.....	20	20	17,381	383,836
3339	3339	Primary nonferrous metals, nec.....	29	18	2,658	50,495
3341	3341	Secondary nonferrous metals.....	387	152	14,441	147,262
3351	----	Copper rolling and drawing.....	103	90	41,283	458,328
	3351	Copper rolling and drawing.....	98	85	39,997	441,150
	3357	Nonferrous wire drawing.....	5	5	1,286	17,178
3352	3352	Aluminum rolling and drawing.....	168	112	42,375	475,331
3359	----	Nonferrous rolling and drawing, nec.....	143	73	16,571	174,633
	3356	Rolling and drawing, nec.....	143	73	16,571	174,633
3361	----	Nonferrous foundries <sup>4</sup> .....	1,991	642	63,344	480,153
	3361	Aluminum castings.....	955	283	30,045	225,686
	3362	Brass, bronze, copper castings.....	665	209	14,861	109,744
	3369	Nonferrous castings, nec.....	345	136	17,253	135,311
	3566	Power transmission equipment.....	8	5	(D)	(D)
	----	All other industries <sup>2</sup> .....	18	9	(D)	(D)
3391	3391	Iron and steel forgings.....	301	189	36,456	310,148
3392	----	Wire drawing.....	207	161	54,230	567,496
	3315	Steel wire drawing.....	102	71	15,805	165,883
	3351	Copper rolling and drawing.....	7	4	332	4,221
	3357	Nonferrous wire drawing, etc.....	98	86	38,093	397,392
3393	----	Welded and heavy-riveted pipe.....	132	97	22,472	260,547
	3317	Steel pipe and tubes.....	132	97	22,472	260,547
3399	----	Primary metal industries, nec.....	690	234	28,062	283,603
	3316	Cold finishing of steel shapes.....	78	63	10,943	141,516
	3392	Nonferrous forgings.....	29	20	5,932	40,963
	3399	Primary metal industries, nec.....	583	151	9,795	90,656
	----	All other industries <sup>2</sup> .....	583	151	1,392	10,468
3411	----	Tin cans and other tinware.....	226	193	54,823	671,924
	3411	Metal cans.....	222	189	54,238	668,606
	3491	Metal barrels, drums, and pails.....	4	4	585	3,318
3421	----	Cutlery.....	186	74	12,061	127,223
	3421	Cutlery.....	183	72	11,831	126,310
	----	All other industries <sup>2</sup> .....	3	2	230	913
3422	----	Edge tools.....	237	76	6,754	55,422
	3423	Edge tools.....	237	76	6,754	55,422
3423	----	Hand tools, nec.....	494	161	21,037	186,098
	3423	Edge tools.....	494	161	21,037	186,098
3424	----	Files.....	25	7	2,035	20,068
	3423	Edge tools.....	25	7	2,035	20,068
3425	----	Hand-saws and saw blades.....	91	40	5,549	53,966
	3425	Hand-saws and saw blades.....	91	40	5,509	53,658
	----	All other industries <sup>2</sup> .....	91	40	40	308
3429	----	Hardware, nec.....	1,070	462	88,826	762,026
	3429	Hardware, nec.....	1,053	451	87,537	750,783
	3494	Valves and pipe fittings.....	14	9	610	5,817
	----	All other industries <sup>2</sup> .....	3	2	679	5,426

See footnotes at end of Part 2.

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3431	----	Plumbing fixtures and fittings <sup>4</sup> .....	323	127	28,093	244,932
	3431	Plumbing fixtures.....	63	41	12,432	118,555
	3432	Plumbing fittings, brass goods.....	254	84	14,663	120,560
	----	All other industries <sup>2</sup> .....	6	2	998	5,817
3439	----	Heating and cooking apparatus, nec.....	829	402	67,904	637,846
	3433	Nonelectric heating equipment.....	649	290	43,281	421,195
	3589	Service industry machines, nec.....	73	28	2,838	26,248
	3631	Household cooking equipment.....	55	45	12,810	108,598
	3639	Household appliances, nec.....	52	39	8,729	80,227
	----	All other industries <sup>2</sup> .....			246	1,578
3441	----	Structural and ornamental products.....	3,436	1,175	132,750	1,215,839
	3441	Fabricated structural steel.....	1,851	779	90,707	815,394
	3449	Miscellaneous metal work, nec.....	1,585	396	42,043	400,445
3442	3442	Metal doors, sash, and trim.....	1,440	516	54,353	437,859
3443	3443	Boiler shop products.....	1,189	516	81,501	682,298
3444	----	Sheet-metal work.....	3,151	697	58,509	516,260
	3444	Sheet-metal work.....	3,146	694	58,307	512,843
	----	All other industries <sup>2</sup> .....	5	3	202	3,417
3461	----	Vitreous-enameled products.....	55	33	5,803	40,582
	3461	Metal stampings.....	55	33	5,803	40,582
3463	----	Metal stampings.....	2,407	1,009	118,553	996,770
	3461	Metal stampings.....	2,389	999	117,796	992,037
	----	All other industries <sup>2</sup> .....	18	10	757	4,733
3465	----	Enameling and lacquering.....	467	97	7,104	47,723
	3479	Metal coating, engraving, nec.....	467	97	7,104	47,723
3466	----	Galvanizing.....	199	54	4,376	32,890
	3479	Metal coating, engraving, nec.....	199	54	4,376	32,890
3467	----	Engraving on metal.....	337	41	4,200	27,726
	3479	Metal coating, engraving, etc.....	337	41	4,200	27,726
3468	3471	Plating and polishing.....	2,646	542	36,471	253,784
3471	----	Lighting fixtures.....	1,207	430	47,444	397,995
	3642	Lighting fixtures.....	1,177	429	47,231	396,665
	----	All other industries <sup>2</sup> .....	30	1	213	1,330
3481	----	Nails and spikes.....	70	34	3,534	30,971
	3315	Steel wire drawing.....	70	34	3,445	30,317
	----	All other industries <sup>2</sup> .....			89	654
3489	----	Wirework, nec.....	1,467	538	55,448	439,804
	3481	Fabricated wire products, nec.....	1,459	535	55,129	437,473
	----	All other industries <sup>2</sup> .....	8	3	319	2,331
3491	3491	Metal barrels, drums, and pails.....	121	70	9,055	91,230
3492	----	Safes and vaults.....	35	13	3,546	40,285
	3492	Safes and vaults.....	35	13	3,495	39,537
	----	All other industries <sup>2</sup> .....			51	748
3493	3493	Steel springs.....	88	41	5,515	44,384
3494	----	Bolts, nuts, washers, and rivets.....	528	286	53,573	507,038
	3452	Bolts, nuts, washers, and rivets.....	525	283	53,270	504,731
	----	All other industries <sup>2</sup> .....	3	3	303	2,307
3495	3451	Screw machine products.....	1,792	419	31,836	249,975
3496	3496	Collapsible tubes.....	22	20	3,837	25,257
3497	----	Metal foil.....	82	47	7,699	96,925
	3352	Aluminum rolling and drawing.....	17	17	4,504	61,755
	3497	Metal foil and leaf.....	65	30	3,195	35,170
3499	----	Fabricated metal products, nec.....	974	211	19,750	176,295
	3499	Fabricated metal products, nec.....	966	209	19,601	175,193
	----	All other industries <sup>2</sup> .....	8	2	149	1,102
3511	3511	Steam engines and turbines.....	25	23	43,979	558,885
3519	----	Internal combustion engines.....	110	75	51,540	508,843
	3511	Steam engines and turbines.....	1	1		
	3519	Internal combustion engines.....	109	74	51,540	508,843

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3521	----	Tractors.....	129	68	60,325	779,524
	3522	Farm machinery and equipment.....	92	41	31,656	368,447
	3531	Construction machinery.....			28,464	408,197
	----	All other industries <sup>2</sup> .....	37	27	205	2,880
3522	----	Farm machinery (except tractors).....	1,346	449	75,300	693,449
	3522	Farm machinery and equipment.....	1,341	449	75,273	693,302
	----	All other industries <sup>2</sup> .....	5	...	27	147
3531	----	Construction and mining machinery.....	754	381	83,400	777,015
	3531	Construction machinery.....	541	267	65,689	607,697
	3532	Mining machinery and equipment.....	169	88	(D)	(D)
	3536	Hoists, cranes, and monorails.....	40	24	(D)	(D)
	----	All other industries <sup>2</sup> .....	4	2	93	726
3532	----	Oil field machinery and tools.....	387	167	32,349	337,354
	3533	Oil field machines and equipment.....	383	166	31,726	334,765
	----	All other industries <sup>2</sup> .....	4	1	623	2,589
3541	----	Machine tools.....	624	230	54,216	431,306
	3541	Metal-cutting machine tools.....	621	228	52,457	419,274
	----	All other industries <sup>2</sup> .....	3	2	1,759	12,032
3542	----	Metalworking machinery.....	608	267	(D)	(D)
	3542	Metal-forming machine tools.....	287	145	(D)	(D)
	3548	Metalworking machinery, nec.....	312	118	30,424	303,750
	----	All other industries <sup>2</sup> .....	9	4	(D)	(D)
3544	----	Special dies and tools.....	4,827	835	70,666	665,910
	3544	Special dies and tools.....	4,822	832	69,016	655,070
	----	All other industries <sup>2</sup> .....	5	3	1,650	10,840
3545	----	Metalworking machinery attachments.....	902	296	39,726	337,008
	3545	Machine tool accessories.....	899	295	39,677	336,361
	----	All other industries <sup>2</sup> .....	3	1	49	647
3551	3551	Food-products machinery.....	672	240	27,715	268,639
3552	3552	Textile machinery.....	547	210	34,186	213,048
3553	3553	Woodworking machinery.....	257	96	12,219	112,936
3554	3554	Paper-industries machinery.....	202	97	15,713	123,758
3555	3555	Printing-trades machinery.....	442	119	21,453	188,881
3559	----	Special industry machinery, nec.....	1,042	386	51,815	434,343
	3559	Special industry machinery, nec.....	1,031	379	50,124	425,287
	----	All other industries <sup>2</sup> .....	11	7	1,691	9,056
3561	----	Pumps and compressors.....	572	241	61,233	549,977
	3561	Pumps and compressors.....	569	239	59,819	539,615
	----	All other industries <sup>2</sup> .....	3	2	1,414	10,362
3562	----	Elevators and escalators.....	144	76	9,626	126,270
	3534	Elevators and moving stairways.....	144	76	9,626	126,270
3563	----	Conveyors.....	473	198	31,099	289,938
	3522	Farm machinery and equipment.....	22	16	1,121	13,061
	3535	Conveyors.....	409	150	20,743	192,402
	3536	Hoists, cranes, and monorails.....	39	29	6,647	64,399
	----	All other industries <sup>2</sup> .....	3	3	2,588	20,076
3564	----	Blowers and fans.....	209	106	15,989	145,492
	3564	Blowers and fans.....				
	----	All other industries <sup>2</sup> .....	209	106	15,947	145,050
					42	442
3565	----	Industrial trucks and tractors.....	259	95	14,768	117,641
	3537	Industrial trucks and tractors.....				
	----	All other industries <sup>2</sup> .....	259	95	14,753	117,266
					15	375
3566	----	Power-transmission equipment.....	510	265	49,063	464,171
	3566	Power-transmission equipment.....	460	231	41,565	382,582
	3717	Motor vehicles and parts.....	29	19	4,994	59,717
	3729	Aircraft equipment, nec.....	17	14	1,935	16,583
	----	All other industries <sup>2</sup> .....	4	1	569	5,289
3567	----	Industrial furnaces.....	165	70	8,703	84,645
	3559	Special industry machinery, nec.....	9	6	522	3,958
	3567	Industrial furnaces and ovens.....	156	64	8,181	80,687

See footnotes at end of Part 2.

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3568	----	Mechanical stokers.....	19	9	693	5,566
	3433	Nonelectric heating equipment.....	19	9	693	5,566
3569	----	General industrial machinery, nec.....	628	244	36,460	348,667
	3443	Boiler shop products.....	41	33	8,360	66,976
	3569	General industry machinery, nec.....	584	209	28,014	281,423
	----	All other industries <sup>2</sup> .....	3	2	86	268
3571	----	Computing and related machines.....	140	74	82,442	590,897
	3571	Computing and related machines.....	133	69	80,715	578,280
	3821	Mechanical measuring devices.....	7	5	1,727	12,617
3572	3572	Typewriters.....	18	13	19,779	168,877
3576	----	Scales and balances.....	79	38	5,733	52,008
	3576	Scales and balances.....	72	32	5,347	49,125
	3811	Scientific instruments.....	7	6	386	2,883
3579	----	Office and store machines, nec.....	226	118	23,072	226,848
	3579	Office machines, nec.....	120	72	15,625	173,424
	3581	Automatic vending machines.....	80	34	4,347	34,749
	3999	Miscellaneous products, nec.....	26	12	3,100	18,675
3581	----	Domestic laundry equipment.....	39	33	24,550	324,280
	3633	Household laundry equipment.....	36	32	24,513	323,900
	----	All other industries <sup>2</sup> .....	3	1	37	380
3582	----	Laundry and dry-cleaning machinery.....	119	47	6,489	64,904
	3582	Commercial laundry equipment.....	119	47	6,480	64,717
	----	All other industries <sup>2</sup> .....			9	187
3583	3636	Sewing machines.....	85	17	9,607	61,991
3584	----	Vacuum cleaners.....	48	23	5,834	89,353
	3584	Vacuum cleaners, industrial.....	18	6	432	4,256
	3635	Household vacuum cleaners.....	27	14	5,330	84,180
	----	All other industries <sup>2</sup> .....	3	3	72	917
3585	----	Refrigeration machinery.....	643	311	111,688	1,051,796
	3581	Automatic vending machines.....	32	18	3,456	29,349
	3585	Refrigeration machinery.....	585	267	66,739	589,078
	3632	Household refrigerators.....	26	26	41,493	433,369
3586	----	Measuring and dispensing pumps.....	34	21	6,231	64,899
	3586	Measuring and dispensing pumps.....	34	21	6,201	64,689
	----	All other industries <sup>2</sup> .....			30	210
3589	----	Service and household machines, nec.....	320	113	14,500	179,365
	3548	Metalworking machinery, nec.....	47	23	2,820	27,992
	3589	Service industry machines, nec.....	243	71	6,967	78,543
	3639	Household appliances, nec.....	26	18	4,630	71,927
	----	All other industries <sup>2</sup> .....	4	1	83	903
3591	----	Valves and fittings, except plumbing.....	574	339	75,198	717,175
	3494	Valves and pipe fittings.....	571	336	74,363	710,045
	----	All other industries <sup>2</sup> .....	3	3	835	7,130
3592	3498	Fabricated pipe and fittings.....	282	134	15,135	154,938
3593	3562	Ball and roller bearings.....	107	81	46,439	407,744
3594	----	Industrial patterns and molds.....	2,046	246	22,159	196,271
	3544	Special dies and tools.....	874	150	13,297	118,067
	3565	Industrial patterns.....	1,168	95	8,817	77,678
	----	All other industries <sup>2</sup> .....	4	1	45	526
3599	----	Machine shops.....	10,547	1,197	122,910	1,018,724
	3599	Machine shops.....	10,139	1,087	114,892	953,395
	3717	Motor vehicles and parts.....	250	73	5,797	48,445
	----	All other industries <sup>2</sup> .....	158	37	2,221	16,884
3611	----	Wiring devices and supplies.....	556	237	50,689	474,348
	3643	Current carrying devices.....	402	143	30,829	259,211
	3644	Noncurrent carrying devices.....	150	93	19,722	214,607
	----	All other industries <sup>2</sup> .....	4	1	138	530
3612	3624	Carbon and graphite products.....	46	35	8,904	102,483
3613	----	Electrical measuring instruments.....	507	199	45,151	410,497
	3611	Electric measuring instruments.....	484	198	45,004	409,594
	----	All other industries <sup>2</sup> .....	23	1	147	903

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3614	3621	Motors and generators.....	378	237	93,541	813,124
3615	3612	Transformers.....	172	81	34,546	363,351
3616	----	Electrical control apparatus.....	618	278	80,021	836,934
	3613	Switchgear and switchboards.....	402	203	52,871	555,044
	3622	Industrial controls.....	216	75	27,150	281,890
3617	----	Electrical welding apparatus.....	135	70	9,895	112,709
	3623	Welding apparatus.....	135	70	9,895	112,709
3619	----	Electrical industrial apparatus, nec.....	334	136	17,592	139,101
	3567	Industrial furnaces and ovens.....	44	24	(D)	(D)
	3629	Electric industrial goods, nec.....	283	109	15,681	123,483
	----	All other industries <sup>2</sup> .....	7	3	(D)	(D)
3621	----	Electrical appliances.....	402	162	39,686	424,771
	3589	Service industry machines, nec.....	25	20	1,452	16,109
	3631	Household cooking equipment.....	14	10	5,342	72,493
	3634	Electric housewares and fans.....	312	106	29,551	305,514
	3639	Household appliances, nec.....	18	15	1,263	10,510
	----	All other industries <sup>2</sup> .....	33	11	2,078	20,145
3631	----	Insulated wire and cable.....	172	91	17,105	154,248
	3357	Nonferrous wire drawing, etc.....	172	91	17,105	154,248
3641	----	Engine electrical equipment.....	168	99	39,879	366,807
	3694	Engine electrical equipment.....	168	99	39,840	366,626
	----	All other industries <sup>2</sup> .....			39	181
3651	----	Electric lamps (bulbs).....	66	52	21,495	270,498
	3641	Electric lamps.....	66	52	21,495	270,498
3661	----	Radios and related products.....	2,023	1,066	305,108	2,592,100
	3643	Current carrying devices.....	20	17	3,979	34,978
	3651	Radios and TV receiving sets.....	234	144	66,505	593,953
	3662	Radio, TV, communication equipment.....	318	211	118,575	1,199,758
	3679	Electronic components, nec.....	1,414	684	105,018	693,823
	----	All other industries <sup>2</sup> .....	37	10	11,031	69,588
3662	----	Electronic tubes.....	282	169	92,939	740,651
	3671	Electron tubes, receiving type.....	85	41	36,968	285,799
	3672	Cathode ray picture tubes.....	75	30	8,554	67,472
	3673	Electron tubes, transmitting.....	48	44	20,146	165,803
	3679	Electronic components, nec.....	65	53	27,224	220,988
	----	All other industries <sup>2</sup> .....	9	1	47	589
3663	3652	Phonograph records.....	94	53	7,421	93,073
3664	----	Telephone and telegraph equipment.....	73	57	85,337	738,724
	3661	Telephone; telegraph apparatus.....	68	54	85,214	737,691
	3662	Radio, TV, communication equipment.....	5	3	123	1,033
3669	----	Communication equipment, nec.....	186	47	10,757	94,415
	3662	Radio, TV, communication equipment.....	178	43	10,387	92,112
	3699	Electrical products, nec.....	8	4	353	2,232
	----	All other industries <sup>2</sup> .....			17	71
3691	3691	Storage batteries.....	276	106	14,924	150,061
3692	3692	Primary batteries.....	42	29	8,096	75,431
3693	----	X-ray and therapeutic apparatus.....	128	34	5,291	58,696
	3693	X-ray and therapeutic apparatus.....	128	34	5,258	58,436
	----	All other industries <sup>2</sup> .....			33	260
3699	----	Electrical products, nec.....	279	110	11,911	97,214
	3699	Electrical products, nec.....	253	95	9,906	71,349
	3842	Surgical appliances and supplies.....	26	15	1,984	25,714
	----	All other industries <sup>2</sup> .....			21	151
3713	----	Truck and bus bodies.....	560	185	19,871	144,937
	3713	Truck and bus bodies.....	560	185	19,868	144,929
	----	All other industries <sup>2</sup> .....			3	8
3715	----	Truck trailers.....	172	94	15,695	131,539
	3715	Truck trailers.....	172	94	15,669	131,140
	----	All other industries <sup>2</sup> .....			26	399
3716	----	Automotive trailers.....	505	236	20,734	146,568
	3791	Trailer coaches.....	386	209	18,717	127,683
	3799	Transportation equipment, nec.....	119	27	2,017	18,885

See footnotes at end of Part 2.

## APPENDIX C.—COMPOSITION OF INDUSTRIES IN THE NEW SIC

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3717	3717	Motor vehicles and parts.....	1,264	651	530,658	6,365,106
3721	3721	Aircraft.....	127	82	377,383	3,399,163
3722	----	Aircraft engines.....	225	177	159,137	1,616,004
	3722	Aircraft engines and parts.....	225	177	{ 159,094 43	1,615,671 333
	----	All other industries <sup>2</sup> .....				
3723	3723	Aircraft propellers.....	18	10	15,505	112,301
3729	----	Aircraft equipment, nec.....	1,142	477	162,436	1,367,386
	2399	Textile products, nec.....	7	6	1,454	5,659
	3729	Aircraft equipment, nec.....	1,129	467	158,794	1,343,699
	----	All other industries <sup>2</sup> .....	6	4	2,188	18,028
3731	----	Ship building and repairing.....	323	225	119,588	918,396
	3731	Ship building and repairing.....	319	222	119,147	913,687
	----	All other industries <sup>2</sup> .....	4	3	441	4,709
3732	3732	Boat building and repairing.....	1,646	276	25,216	156,731
3741	3741	Locomotives and parts.....	25	13	15,282	152,086
3742	3742	Railroad and street cars.....	65	43	23,931	165,066
3751	3751	Motorcycles and bicycles.....	51	29	7,578	52,125
3799	3799	Transportation equipment, nec.....	133	40	2,530	17,672
3811	3811	Scientific instruments.....	493	175	63,465	576,059
3821	----	Mechanical measuring instruments.....	705	268	74,021	705,730
	3821	Mechanical measuring devices.....	618	222	48,072	441,340
	3822	Automatic temperature controls.....	83	44	25,513	258,969
	----	All other industries <sup>2</sup> .....	4	2	436	5,421
3831	3831	Optical instruments and lenses.....	224	58	7,184	60,387
3841	3841	Surgical and medical instruments.....	206	66	8,714	72,647
3842	----	Surgical appliances and supplies.....	571	153	25,071	279,700
	2649	Paper and board products, nec.....	10	9	3,245	49,559
	3842	Surgical appliances and supplies.....	561	144	21,826	230,141
3843	3843	Dental equipment and supplies.....	249	55	7,242	71,574
3851	3851	Ophthalmic goods.....	246	104	18,223	136,696
3861	3861	Photographic equipment.....	480	159	60,262	788,759
3871	3871	Watches and clocks.....	168	65	23,505	165,158
3872	3872	Watchcases.....	61	24	2,652	18,398
3911	----	Jewelry, precious metal.....	1,304	184	21,039	165,848
	3911	Jewelry, precious metal.....	1,304	184	{ 21,010 29	165,549 299
	----	All other industries <sup>2</sup> .....				
3912	3912	Jewelers' findings.....	249	56	5,101	33,434
3913	----	Lapidary work.....	328	19	1,943	14,885
	3913	Lapidary work.....	328	19	{ 1,904 39	14,605 280
	----	All other industries <sup>2</sup> .....				
3914	3914	Silverware and plated ware.....	209	87	13,852	109,728
3931	----	Pianos.....	24	22	5,824	37,316
	3931	Musical instruments and parts.....	24	22	5,824	37,316
3932	----	Organs.....	50	19	2,314	19,252
	3931	Musical instruments and parts.....	50	19	2,314	19,252
3933	----	Piano and organ parts.....	449	23	3,335	31,133
	3931	Musical instruments and parts.....	49	23	3,335	31,133
3939	----	Musical instruments, nec.....	150	52	4,630	33,394
	3931	Musical instruments and parts.....	150	52	4,630	33,394
3941	----	Games and toys, nec.....	856	368	43,044	289,616
	3941	Games and toys, nec.....	856	368	{ 42,972 72	288,863 753
	----	All other industries <sup>2</sup> .....				
3942	3942	Dolls.....	485	162	13,860	77,149
3943	----	Children's vehicles.....	60	35	4,960	33,234
	3943	Children's vehicles.....	60	35	{ 4,708 252	31,727 1,507
	----	All other industries <sup>2</sup> .....				

See footnotes at end of Part 2.



## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
3949	----	Sporting and athletic goods.....	1,208	299	37,041	313,148
3949	3949	Sporting and athletic goods, nec.....	1,208	299	{ 37,025	313,014
----	----	All other industries <sup>2</sup> .....				
3951	3951	Pens and mechanical pencils.....	142	64	10,957	88,269
3952	3952	Lead pencils and crayons.....	53	33	4,891	35,980
3953	----	Hand stamps and stencils.....	523	70	5,430	39,775
3953	3953	Marking devices.....	523	70	5,430	39,775
3954	----	Artists' materials.....	93	21	1,796	11,929
3954	3952	Lead pencils and art goods.....	93	21	1,796	11,929
3955	3955	Carbon paper and inked ribbons.....	103	61	5,818	58,951
3961	----	Costume jewelry.....	1,053	256	25,380	138,360
3961	3961	Costume jewelry.....	1,053	256	{ 25,286	138,043
----	----	All other industries <sup>2</sup> .....				
3962	3962	Artificial flowers.....	431	101	6,770	34,650
3963	----	Buttons.....	357	87	6,458	37,937
3963	3963	Buttons.....	354	87	6,453	37,908
----	----	All other industries <sup>2</sup> .....	3	...	5	29
3964	----	Needles, pins, and fasteners.....	368	129	17,758	127,671
3964	3964	Needles, pins, and fasteners.....	368	129	{ 17,706	127,390
----	----	All other industries <sup>2</sup> .....				
3971	3079	Plastics products, nec.....	3,208	1,136	113,066	894,440
3981	----	Brooms and brushes.....	725	181	17,362	140,498
3981	3981	Brooms and brushes.....	723	179	17,082	137,496
----	----	All other industries <sup>2</sup> .....	2	2	280	3,002
3982	----	Cork products.....	35	11	956	14,355
2499	----	Wood products, nec.....	24	10	907	13,988
----	----	All other industries <sup>2</sup> .....	11	1	49	367
3983	3983	Matches.....	23	20	5,127	41,776
3984	3984	Candles.....	86	25	2,516	17,668
3985	----	Fireworks and pyrotechnics.....	67	19	1,628	9,043
2899	----	Chemical preparations, nec.....	67	19	1,628	9,043
3986	----	Jewelry and instrument cases.....	160	60	6,214	32,356
3161	----	Luggage.....	14	9	474	2,244
3172	----	Small leather goods.....	146	51	5,740	30,112
3987	3987	Lamp shades.....	270	50	3,895	18,577
3988	3988	Morticians' goods.....	592	219	17,362	128,879
3991	----	Beauty and barber-shop equipment.....	75	22	1,892	16,150
3999	----	Miscellaneous products, nec.....	75	22	1,892	16,150
3992	----	Furs, dressed and dyed.....	139	32	2,731	24,363
3992	3992	Furs, dressed and dyed.....	139	32	{ 2,696	24,112
----	----	All other industries <sup>2</sup> .....				
3993	----	Signs and advertising displays.....	2,723	461	36,189	281,381
3993	3993	Signs and advertising displays.....	2,723	461	{ 36,100	280,763
----	----	All other industries <sup>2</sup> .....				
3994	----	Hairwork.....	130	24	1,593	8,322
3999	----	Miscellaneous products, nec.....	130	24	1,593	8,322
3995	3995	Umbrellas, parasols, and canes.....	123	43	2,932	16,602
3996	----	Tobacco pipes.....	32	10	1,122	7,105
3999	----	Miscellaneous products, nec.....	32	10	1,122	7,105
3997	----	Soda-fountain and bar equipment.....	40	11	976	8,954
3585	----	Refrigeration machinery.....	40	11	976	8,954
3999	3999	Miscellaneous products, nec.....	986	190	19,279	140,596

See footnotes at end of Part 2.

## Part 2.—Distribution of Old SIC Industries Among New SIC Industries: 1958—Continued

Industry code		Industry title	Establishments, number		All employees, number <sup>1</sup>	Value added by manufacture, adjusted <sup>1</sup> (\$1,000)
Old SIC	New SIC		Total <sup>1</sup>	With 20 or more employees <sup>1</sup>		
1911	1911	Guns, over 30 mm.....	5	4	251	2,942
1921	1921	Artillery ammunition.....	25	17	4,028	26,811
1922	1922	Ammunition loading.....	6	4	1,189	8,985
1929	----	Ammunition, nec.....	89	59	157,184	1,572,440
	1925	Complete guided missiles.....	23	23	100,678	1,104,394
	1929	Ammunition, nec.....	17	14	5,875	50,213
	3729	Aircraft equipment, nec.....	49	22	50,631	417,833
1931	1931	Tanks and tank components.....	17	10	7,069	63,711
1941	1941	Sighting and fire control equipment.....	23	19	44,571	448,724
1951	1951	Small arms.....	34	23	8,010	51,005
1961	1961	Small arms ammunition.....	24	12	9,049	82,733
1999	1999	Ordnance and accessories, nec.....	47	22	15,297	162,190

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The old SIC industry totals in Part 2 may in some instances represent slight revisions of the corresponding 1958 old SIC totals shown in tables 1, 1A, and 2A of the industry reports in Volume II, Industry Statistics.

<sup>2</sup>These data are for a miscellaneous group of establishments that were transferred to other industries because of (a) shifts in their product classification to conform to the new SIC, and (b) classification errors for small establishments that were not corrected since they were not statistically significant.

<sup>3</sup>Includes establishments with 2,500 to 4,999 employees, primarily engaged in producing synthetic sausage casings, which have been transferred to new SIC Industry 3079, "Plastics Products, NEC."

<sup>4</sup>Figures differ from table 2A of the industry report because the latter excludes a number of establishments reclassified into other industries as a result of SIC revisions.



## APPENDIX D.-CENSUS REPORT FORMS AND PUNCH CARDS

Approximately 200 different report forms ("standard" forms) were used in collecting information in the 1958 Census of Manufactures. Nearly all of these were variations of Form MC-35Q shown on pages D-2 thru D-9 of this appendix. Such forms were sent to larger manufacturing plants. Items 1 through 16 are the same on nearly all such forms. Items 17 and 18, while similar in general purpose, are different for each industry or group of related industries depending upon the materials used or the products manufactured. Items 19 thru 21 are similarly adapted to the special characteristics of individual industries.

In addition to the standard forms, thirty report forms ("short" forms) were used for small establishments. The size cut-off for use of short forms varied with the size composition of the industry, generally ranging from 4 to 10 employees. In a few industries these small establishments were typical and accounted for a significant proportion of the industry's total in their aggregate. In such cases modified versions of short forms were used.

On short forms, data requirements typically were limited to a relatively few key items, the chief variation among them being in the list of product classes preprinted in the shipments inquiry. A typical short form, MC-36Z, is also reproduced in this appendix.

Instructions for preparing the 1958 Census "standard" report forms are also shown below. No separate instructions were provided for "short" forms.

Additional forms used to cover separate central administrative offices and auxiliary units, plants under construction but not in operation during 1958, distribution of manufacturers' sales by class of customer, etc., are described in the introductory text which appears at the beginning of this Volume.

The basic punch card used in tabulating the 1958 Census data is shown on page D-19.

ORIGINAL  
Form MC-350  
Return this copy to  
Bureau of the Census

U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

1958 CENSUS OF MANUFACTURES  
INDUSTRIAL FURNACES AND OVENS

0	CENSUS USE ONLY		Location		F/O
0-1	0-2				

PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.

Please complete and return this form in the return envelope to the Bureau of the Census, Jeffersonville, Indiana, **not later than 30 days** after you receive it.

ITEM 1A NAME OF ESTABLISHMENT	NAME
(In answering Item 1B, parts (1) through (5) below, be sure your answers relate to the ACTUAL PHYSICAL LOCATION of your establishment, which may be different from its mailing address.)	
ITEM 1B LOCATION OF ESTABLISHMENT	1. STATE
	2. COUNTY
3. Is this establishment within the legal boundary of a municipality? Yes <input type="checkbox"/> No <input type="checkbox"/>	

If "Yes,"	
(a) Enter name of the municipality. (Enter name only if establishment is within legal boundary)	
(b) Type of municipality. (Check applicable box)	
<input type="checkbox"/> City	<input type="checkbox"/> Village
<input type="checkbox"/> Other (Specify)	

4. STREET AND NUMBER AT ESTABLISHMENT LOCATION (If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e. g., Rt. 25, 3 miles South of Charlesville.)
--

5. Is this establishment within a town or township? Yes <input type="checkbox"/> No <input type="checkbox"/>
IF "YES," ENTER NAME OF TOWN OR TOWNSHIP

For establishments in New England, New Jersey, and Pennsylvania

Form approved, Budget Bureau No. 41-58101.

**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31, 1954, (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.

In correspondence pertaining to this report please refer to this file number  
MC-35Q (3517)

(Please correct any errors in name and address)

ITEM 2A FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER	Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)
---	--

ITEM 2B COMPANY ORGANIZATION	(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes <input type="checkbox"/> No <input type="checkbox"/>
---------------------------------	---

	(b) Does this company own or control another company? Yes <input type="checkbox"/> No <input type="checkbox"/>
--	--

	(c) Is this company owned or controlled by another company? If "Yes," is checked in Part (c), give name and address of owning or controlling company. Yes <input type="checkbox"/> No <input type="checkbox"/>
--	--

ITEM 2C FORM OF OWNERSHIP	(Check one) (1) <input type="checkbox"/> Individual proprietor (x) <input type="checkbox"/> Partnership (Specify number of working partners _____) (0) <input type="checkbox"/> Corporation (Do not include any form of coop. ass'n) (8) <input type="checkbox"/> Cooperative association (corporate or noncorporate) (9) <input type="checkbox"/> Other (Specify)
------------------------------	---



## DEFINITIONS FOR ITEMS 3, 4, AND 5

**Production Workers.**—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production operations. Exclude supervisory employees above working foreman level.

**All Other Employees.**—Nonproduction personnel at this establishment, including those engaged in the following activities: factory supervision above working foreman

level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional and technical. **Include** force-account construction employees on your payroll engaged in construction of major additions or alterations to the plant who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production workers.

ITEM 3 PAYROLLS (\$000)	Enter the total of wages, salaries, bonuses, commissions, and other remunerations in 1958, before deductions, paid to—	1958		KEY
		Thousands of dollars		
ITEM 4 NUMBER OF EMPLOYEES	<b>Production workers</b> during pay period ended nearest 15th of— (See definitions above Item 3)	a. Production workers	\$	0-5
		b. All other employees	\$	0-6
		c. <b>Total payrolls</b> (Sum of a and b)	\$	0-7
		a. March 1958		0-8
		b. May 1958		0-9
ITEM 5 PLANT MAN- HOURS OF PRODUCTION WORKERS, BY QUARTER (Thousands)	Enter the total number of plant man-hours of production workers (as defined above) for each calendar quarter (or comparable 13-week period) of 1958. Do not include hours for paid vacations, holidays or sick leave.	c. August 1958		0-10
		d. November 1958		1
		e. Sum of lines a, b, c, and d		1-1
		f. Average number (Divide sum on line e by 4)		1-2
		g. All other employees, March 15, 1958		1-3
		h. <b>Total</b> (Sum of f and g)		1-4
		a. January through March 1958		1-5
		b. April through June 1958		
		c. July through September 1958		
		d. October through December 1958		
e. <b>Total production worker man-hours</b> (Sum of a, b, c, and d)			1-10	

(OVER)

## Form MC-35Q—Industrial Furnaces and Ovens—Continued

Page 2

ITEM 6 COST OF MATERIALS, FUELS, ELECTRIC ENERGY, CONTRACT WORK, ETC. DURING 1958 (\$000)	On lines <b>a</b> and <b>c</b> , report the cost of all items <b>actually consumed or put into production in 1958</b> , whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts consumed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major material, if purchases closely approximate consumption, and for all minor materials and supply items. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For materials, parts, etc. transferred from other establishments of this company, report the approximate commercial value as received.	Item	1958 Thousands of dollars		KEY
		a. Materials, parts, components, containers, supplies, etc., consumed	\$		2
		b. Products bought and resold without further manufacture	\$		2-1
		c. Fuels consumed	\$		2-2
		d. Purchased electric energy	\$		2-3
		e. Cost of contract work done for you by others on your materials	\$		2-4
		f. <b>Total cost (Sum of a through e)</b>	\$		2-5
					2-6*
ITEM 7 INVENTORIES OF THIS ESTABLISHMENT (\$000)	Report all inventories held by this establishment at the beginning and end of 1958. Inventories should be reported at approximate current costs, if feasible; otherwise at book values.	Kind of inventory	Value of inventories (Thousands of dollars)	KEY	
			Beginning of 1958	End of 1958	
		a. Finished products inventories	3-1 \$	\$	3-5
		b. Work-in-process inventories	3-2 \$	\$	3-6
		c. Materials, supplies, fuels, etc. inventories	3-3 \$	\$	3-7
		d. <b>Total inventories (Sum of a, b, and c)</b>	3-4 \$	\$	3-8*
ITEM 8 CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT DURING 1958 (Exclude expenditures for land) (\$000)	Expenditures refer to all costs actually incurred during 1958 which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line d.	Type of capital expenditure (Excluding land)	Expenditures (Thousands of dollars)	KEY	
		a. New structures and additions to plant (incl. major alterations, capitalized repairs and improvements)	\$		4
		b. New machinery and new equipment (including capitalized repairs and improvements)	\$		4-1
		c. Used plant and used equipment acquired from others	\$		4-2
		d. <b>Total capital expenditures (Sum of a, b, and c)</b>	\$		4-3
ITEM 9 QUANTITY OF ELECTRIC ENERGY USED DURING 1958 (Thousands of kilowatt hours)	Include on line a, all electric energy purchased for light, heat and power. Do not include electric energy purchased for resale.  Include on line b, all electric energy generated in this establishment whether for use by this establishment or for sale.  Include on line c, sales or transfers of electric energy generated by this establishment.	Purchased electric energy	Thousands of KWH		4-4
		a. Purchased electric energy			4-5
		b. Generated electric energy (Gross less generating-station use)			4-6
		c. Electric energy sold or transferred to other plants			4-7*



ITEM 10 ITEM 11	(Not applicable to this form)	GIVE NAME AND ADDRESS OF FORMER OWNER (IF BOX "a" IS CHECKED) OR PURCHASER (IF BOX "b" IS CHECKED)															
ITEM 12 CHANGE IN STATUS OR OWNERSHIP OF THIS ESTABLISHMENT SINCE DECEMBER 31, 1957	Change in legal ownership since December 31, 1957 (Check one)  a. <input type="checkbox"/> Purchased by you on _____ (Date)  b. <input type="checkbox"/> Sold by you on _____ (Date)  c. <input type="checkbox"/> Reorganized (partnership change or change in corporate status)  d. <input type="checkbox"/> Went out of business (no new owner) on _____ (Date) e. <input type="checkbox"/> No change	* Make certain that you have entered in Item 2A the current (or most recent) Federal Social Security Identification Number of this establishment.															
ITEM 13 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	<p><b>Please Note —</b></p> <p>1. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios.</p> <p>2. Incomplete answers will result in correspondence which is both costly and time consuming. Be sure to <b>complete every item</b>. Enter "None" in items 3-9 if appropriate.</p> <p>3. Reasonably accurate estimates are acceptable. The statistical purposes of the Census will not be affected by such estimates. Preparing estimates at the time the report is completed will avoid the necessity for further correspondence on blank items.</p> <p>4. All dollar figures are to be reported in thousands of dollars. For example, if the complete dollar figure to be reported is \$1,367,700 enter \$1368. All quantity figures should be reported in the unit specified in the item.</p>	<p>5. Failure to file reports within the requested period results in costly delays* and follow-up letters. Please submit your reports as quickly as possible.</p> <p>6. It is very difficult and costly to process your correspondence if you do not show your file number (see address box) on all correspondence concerning your Census reports.</p> <p>7. The following inquiry is provided to call your attention to possible oversights and errors in the data entered on your form. To save you future correspondence about these problems, please make the checks indicated below before returning your report:</p> <p>a. Review the report carefully to see that no items are omitted.</p> <p>b. Calculate the four "reasonableness" checks described below, enter the figures for each, and analyze your results.</p> <p>c. Correct your report for any errors you find; explain unusual figures in the "Remarks" section below.</p>															
REMARKS	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">"Reasonableness" checks</th> <th style="width: 50%;">Calculation required for each check</th> <th style="width: 10%;">1958</th> </tr> </thead> <tbody> <tr> <td>1. Average hourly wages per worker</td> <td>Item 3a (Production worker wages) ÷ Item 5e (Total man-hours)</td> <td>\$</td> </tr> <tr> <td>2. Hours worked per year per worker</td> <td>Item 5e (Total man-hours) x 1,000 ÷ Item 4f (Average production workers)</td> <td></td> </tr> <tr> <td>3. Salaries and wages per dollar of shipments</td> <td>Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)</td> <td>¢</td> </tr> <tr> <td>4. Materials cost per dollar of shipments</td> <td>Item 6f (Total materials cost) ÷ Item 18, Total, Col. (E) (Value of shipments)</td> <td>¢</td> </tr> </tbody> </table>		"Reasonableness" checks	Calculation required for each check	1958	1. Average hourly wages per worker	Item 3a (Production worker wages) ÷ Item 5e (Total man-hours)	\$	2. Hours worked per year per worker	Item 5e (Total man-hours) x 1,000 ÷ Item 4f (Average production workers)		3. Salaries and wages per dollar of shipments	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢	4. Materials cost per dollar of shipments	Item 6f (Total materials cost) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢
"Reasonableness" checks	Calculation required for each check	1958															
1. Average hourly wages per worker	Item 3a (Production worker wages) ÷ Item 5e (Total man-hours)	\$															
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3. Salaries and wages per dollar of shipments	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢															
4. Materials cost per dollar of shipments	Item 6f (Total materials cost) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢															
ITEM 14 ITEM 15	(Not applicable to this form)																

(Please continue on next page.)





All other carbon steel mill shapes and forms . . . . .	6	331219	9	Short tons		\$	<input type="checkbox"/> 1
	7	331221	4	Short tons		\$	<input type="checkbox"/> 1
	8	331225	8	Short tons		\$	<input type="checkbox"/> 1
	9	331231	7	Short tons		\$	<input type="checkbox"/> 1
	10	332311	5	Short tons		\$	<input type="checkbox"/> 1
Steel castings (rough and semifinished, received from foundry)							
All other materials and components, parts, containers, and supplies consumed	11	970099	0			\$	
Total (Sum of lines 1-11; should be the same as Item 6a)	12					\$	

**REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS**

Report separately each product listed; do not combine product lines.

**Total Shipments and Interplant Transfers (Col. (D) and Col. (E)).—**Report in these columns the quantity and selling value, f. o. b. plant, of all products made in this establishment which were physically shipped from this establishment during 1958. **Include** products shipped on consignment, whether or not sold at the end of the year. **Deduct** returned goods.**Include** products made for you by others on commission from your own materials. **Exclude** products made in this establishment on commission for others from their materials. **Exclude** items, such as "private brand" products, purchased from others for resale by you.

For value of shipments, report the net selling value, f. o. b. plant, of your total shipments of each product listed. The reported figures should repre-

sent values f. o. b. plant **after** discounts and allowances and should not include freight charges or excise taxes.**Include** products transferred to other establishments of your company (such as other manufacturing plants or separate sales branches). Their "value" should be the nearest approximation to the commercial selling value, f. o. b. plant, and not the cost of production.**Resales (Line 23).—**Report on this line the invoice sales value of products sold in the same condition as purchased, and which are not made part of any products included under "Products Made in This Establishment." This applies regardless of the brand names under which the products are resold. (The cost of such resold goods should be reported in Item 6b.)

a. Products Made in This Establishment	Indus-trial furnaces and ovens	Product A	Line No.	7-1X Census product code B-1	Unit of measure B-2	7-3		7-4	
						Total shipments and interplant transfers		Value f. o. b. plant (in thousand of dollars)	
						Quantity	D		E
	Fuel fired furnaces Metal melting (including blast furnaces and cupolas) Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces) . . . . . Kilns, cement, wood and chemical . . . . . Other nonmetallic (including kilns and lehrs) . . . . . Hot rolling, forging, forming and extruding . . . . .		1	35672 11 9	No. of units			\$	
			2	35672 21 0	No. of units			\$	
			3	35672 32 4	No. of units			\$	
			4	35672 34 0	No. of units			\$	
			5	35672 61 4	No. of units			\$	

(OVER)

## Form MC-35Q—Industrial Furnaces and Ovens—Continued

Page 4

ITEM 18 PRODUCTS AND SERVICES, ETC.—Con.	7 Product A	7-1X Census product code B-1	Unit of measure B-2	7-3 Total shipments and interplant transfers		7-4 Value f. o. b. plant (in thousands of dollars) E
				Quantity D		
a. Products Made in This Establish- ment—Con.	Industrial furnaces and ovens (continued)	Fuel fired industrial ovens	No. of units			\$
		Electric furnaces (excluding induction) Metal melting	No. of units			\$
		Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)	No. of units			\$
		Nonmetallic (including kilns and lehrs)	No. of units			\$
		Electric (including infrared) industrial ovens	No. of units			\$
		Parts, attachments, and components for industrial furnaces and ovens, including electric heating units (sold separately)				\$
		Induction furnaces and heating equipment Radio frequency types (including spark gap)	No. of units			\$
		Line and motor-generator set frequency types	No. of units			\$
		Dielectric heating equipment	No. of units			\$
		(Specify kind and unit of measure)				\$
	All other products					\$
						\$
						\$
						\$
b. Contract Work	Receipts for work done for others on their own materials (Describe products worked on and kind of work)					\$
		19 93000 00 0				\$
c. Miscellaneous Receipts	Receipts for repair work	20 99983 00 0				\$
	Receipts for installation (or construction) of products of this establishment (See spe- cial instruction sheet on reporting of installation costs in Items 4, 6, and 17)	21 99985 00 6				\$
	Other miscellaneous receipts (sales of scrap, etc.)	22 99980 00 1				\$



d. Resales	Sales of products <b>bought and resold without further manufacture, processing, or assembly</b> in this establishment		23 99989 00 8			\$
e. Total—(Sum of lines 1-23)						
ITEM 19 FACTORY AND FIELD ASSEMBLY OF INDUSTRIAL FURNACES AND OVENS	Of the total value of shipments of industrial furnaces and ovens, and induction and dielectric heating equipment reported in Item 18 (Total Col. E, lines 1-14 above), report the value of shipments for 1958 which were:		Industrial furnaces and ovens		8	8-2 Value of shipments (Thousands of dollars)
	a. Field assembled				44	\$
	b. Factory assembled				55	\$
ITEM 20 SELECTED METAL- WORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTAB- LISHMENT DURING 1958	Indicate in column (B) by checking appropriate boxes, whether or not the specified operations were performed in this establishment during 1958. A check should be entered in either the "Yes" box or "No" box for each operation. Where the "Yes" box is checked, show in column (C) the approximate number of production workers on all shifts usually engaged in the specified operation.					
	Operation	A	Line No.	B Was this operation performed in this establishment during 1958		8-2 Number of production workers (on all shifts) usually employed when operated (Estimate if necessary) C
	Machine shop	1		Yes <input type="checkbox"/>	No <input type="checkbox"/>	09
	Plate or structural fabrication	2		Yes <input type="checkbox"/>	No <input type="checkbox"/>	12
	Stamping, blanking, and forming	3		Yes <input type="checkbox"/>	No <input type="checkbox"/>	13
	Painting, lacquering, and enameling	4		Yes <input type="checkbox"/>	No <input type="checkbox"/>	14
ITEM 21	(Not applicable to this industry)					
ITEM 22	NAME AND ADDRESS OF PERSON WHO SHOULD BE CONTACTED IF QUESTIONS ARISE REGARDING THIS REPORT		TELEPHONE NO			
ITEM 23 CERTIFICATION	This report is substantially accurate and covers the period from _____ to _____					
	DATE	TITLE	SIGNATURE OF AUTHORIZED PERSON			

U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

## 1958 CENSUS OF MANUFACTURES

The purpose of this pamphlet is to assist you in filling out the enclosed Census of Manufactures form(s). Please read the instructions for each item before entering your figures. Note that all value figures are to be reported in *thousands* of dollars, all man-hour figures are to be reported in *thousands* of hours, and all electric energy figures are to be reported in *thousands* of kilowatt-hours.

### A. WHO SHOULD REPORT?

Every concern which receives a form is required to submit a separate census report for each of its manufacturing establishments in the Continental United States, Alaska, Hawaii, the Virgin Islands, and Guam. Concerns with more than one establishment must submit a separate re-

port for each establishment operated during all or any part of 1958. Your report should be returned to the Census Office shown on the enclosed envelope *within 30 days of its receipt*.

### B. WHAT IS A MANUFACTURING ESTABLISHMENT?

A manufacturing establishment is a single physical location where industrial operations are performed; for example, a factory, mill, or plant. Where a single physical location comprises two or more units which are engaged in distinct or separate manufacturing activities, and for which separate records are available or for which substantially accurate reports can be prepared, each such unit shall be treated as a separate establishment. In the preparation of such reports a limited amount of prorating or estimating may be necessary. An establishment is not necessarily identical with the business concern or firm which may consist of one or more establishments. It is also to be distinguished from organizational departments or other subdivisions within an establishment. Units at different physical locations, even though engaged in the same line of manufacturing, processing, and assembly, should be reported as separate establishments.

If you have not received a sufficient number of forms to cover all manufacturing establishments operated by your concern during the report year, please write the Bureau of the Census for additional copies, indicating the type

of activity which is not covered by the form(s) sent you. In corresponding for this, or any other reason, be sure to include in your letter the Census reference number which appears in the address box of the form sent you.

Please note that establishments engaged in the activities listed below are considered to be manufacturing for the purposes of this Census:

Assembling from purchased components	Sawmills
Apparel jobbing and contracting	Wood preserving
Publishing: book, magazine, periodical, etc.	Plating, galvanizing, polishing, etc., material owned by others
Printing	Job casting, stamping, machining
Machine shops, including those operating on a job order basis	Milk pasteurizing and bottling
Ready mixed concrete	Ship and boat repairing
Logging camps and logging	Lapidary work
	Rebuilding on a factory basis

If a manufacturing establishment had custodial or other employment, made shipments or had inventories during 1958, a report should be submitted for the location even though it was not in production during that year.

### C. WHAT KIND OF ACTIVITIES SHOULD THE ESTABLISHMENT REPORTS COVER?

Each report should cover all the production activities (manufacturing, fabricating, processing, and assembling) *conducted within the establishment*. It should also include activities such as the maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, record keeping, health, safety, cafeteria, and other services, *when carried on at the same physical lo-*

*cation by the manufacturing establishment*. Your report should exclude sales branches, sales offices, research laboratories, retail stores, and general administrative offices, *if they are operated as separate establishments*. Separate Census reports should be submitted for each of these establishments.

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT-HOURS IN THOUSANDS



**D. WHAT PERIOD SHOULD EACH REPORT COVER?**

Each report should cover the calendar year 1958. If your book records are not on a calendar year basis, carefully prepared estimates for this period will be accepted. If, however, this procedure will involve you in considerable additional costs, and the ending date of your fiscal year is not more than two months from December 31, 1958, you may report on a fiscal basis. As in the 1954 Census, however, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year.

**E. HOW SHOULD MULTIPLE ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES OF PRODUCTS AND MATERIALS?**

In order to provide accurate information for individual industries and States, it is necessary for each establishment of a multiple establishment organization to report as though it were operated as an independent manufacturing establishment. For example, where a single company operates a textile mill and also manufactures apparel, the transfer of fabrics from one establishment to the other should be reported at *approximately commercial value* and *not* at the cost of production. This requires that a company operating two or more establishments assign to the individual products transferred to other plants for further processing a reasonable proportion of the profits and the overhead costs. It is recognized that estimates will often be involved.

The dates given in the certification should show the exact period for which this report is made. Thus, if an establishment began to operate or ceased to operate within the year, the dates given will show that only part of a year is covered by the report. Where an establishment was operated during the year by two or more owners, complete the report only for that part of the year 1958 in which you owned and operated the establishment.

If the product section of the form (Item 18) calls for "interplant transfers" separately, it means transfers between *manufacturing* establishments of your company unless otherwise specified on the report form. The products reported at "transfer values" by the shipping establishments of your company should be reported by your receiving establishments as materials consumed (or inventories of materials, etc.) at the same values, except for the addition of freight and other direct handling charges.

These instructions apply to all establishments for which separate establishment reports are being submitted, including those at the same location as well as those at different locations.

**ITEMS ON THE REPORT FORM**

**Items 1 and 2.** (See instructions on Form.)

**Item 3. Payrolls.**—Report the gross earnings paid in calendar year 1958 to employees on the payroll at this establishment, *including* commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and compensation in kind, and *prior* to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. (You should follow the definition of salaries and wages that is used for calculating the withholding tax.) *Include* salaries of officers at this establishment, if a corporation; *exclude* payments to proprietor or partners, if an unincorporated concern. *Exclude* payments to members of armed forces and pensioners carried on your active payroll.

**Item 4. Number of Employees.**—Report employees at this establishment who worked or received pay for any part of the pay period (preferably one week) ended nearest the 15th of the specified months (i. e., March, May, August, and November for "production workers" and March *only* for "all other employees"). *Include* all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; *exclude* members of armed forces and pensioners carried on your active rolls. *Include* officers at this establishment, if a corporation; *exclude* proprietor or partners, if an unincorporated concern. (You may follow the definition of employees specified by your State Employment Security Agency.)

**Items 4e and 4f.** Add the four production worker em-

ployment figures on lines 4a-4d and enter total on line 4e; *divide* this total by *FOUR* and enter the result on line 4f. In cases where the establishment did not operate in all four periods, the sum shown in 4e should still be divided by four.

**Item 5. Plant Man-Hours of Production Workers, by Quarter.**—"Plant man-hours" of production workers are designed to measure the over-all activity of the plant during each quarter. The requested figures consist of all man-hours worked or paid for, except hours paid for vacations, holidays or sick leave, when the employee was *not* at the plant. *Include* actual overtime hours, not straight-time equivalent hours. If employee elects to work during the vacation period, report only actual hours worked by such employee.

**Item 6. Cost of Materials, Fuels, Electric Energy, Contract Work, Etc.**

**What to Include in This Item.**—Report total costs of materials, supplies, semi-finished goods, fuels, etc., actually consumed or put into production during 1958 by your establishment.

**Definition of Consumption.**—Include costs of materials, supplies, semi-finished goods, etc., used during 1958. Include costs of such items received prior to 1958 if they were consumed during 1958. Do not include items received in 1958 if they were not consumed that year. If your records do not show actual amounts consumed or put into production during the year, but purchases closely

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT-HOURS IN THOUSANDS



approximate consumption, purchase figures may be used in completing Items 6a, 6c, and 6d. This applies especially to minor materials and supply items. If, for any major item, however, consumption differs significantly from purchases, consumption should be computed from your records of purchases (receipts) and inventories of materials as follows: Add the cost of material received during the year to cost of material on hand at the beginning of the year and from this total subtract cost of material on hand at the end of the year. The resulting figure represents consumption during the year. *In addition to items purchased from other companies you should be sure to include materials, fuels, supplies, etc., received from other establishments of your company.*

**Definition of Cost.**—"Cost" refers to direct charges actually paid or payable for items consumed or put into production during the year. It should represent the net cost after discounts and should include freight charges and other direct charges incurred by the establishment in acquiring these materials.

The cost reported for materials, etc., received from other plants of your company or from a central materials depot (whether at the same or different physical location) should approximate the commercial values of these materials plus freight and other direct handling charges. Wherever possible, these figures should be checked with the values reported by the plant producing and transferring the goods and should exceed the shipment values reported for the producing plant by the addition of freight or other direct handling charges involved.

**Item 6a. Cost of Materials, Parts, Components, Containers, Supplies, Etc., Consumed.**—The figures reported in Item 6a should cover materials, supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance, and (4) owned by you but consumed by other companies to make products for your establishment.

Report the total delivered cost of *all* raw materials, semi-finished goods, parts, components, containers, scrap, and supplies used or put into production during 1958 by this establishment. For semi-finished goods, parts, or components produced *during 1958* and incorporated into finished products at the same plant *during 1958*, include the cost of raw materials used rather than the value of the intermediate products.

*Include* only physical goods *used or put into production* and not services used or overhead charges. *Exclude* such services as advertising, telephone, telegram and cable, insurance, developmental and research services provided by other establishments, services of engineering, management, marketing and other professional consultants, etc., unless charges for such services are included in the prices paid for materials. *Exclude*, in addition, such overhead items as depreciation charges against plant and equipment, rent and rental allowances, interest payments, royalties, and patent fees. *Exclude* materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant, or new machinery and equipment, and which are chargeable to fixed assets accounts. Products purchased and

resold without further manufacture or processing or assembly should be included in *Item 6b*.

**Item 6b. Cost of Products Bought and Resold Without Further Manufacture, Processing or Assembly in This Establishment During 1958.**—Report the cost of all products bought and resold in the *same* condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all products thus resold is to be reported in Item 18 on the line for "Resales.")

**Item 6c. Fuels Consumed.**—Report the total amount actually paid or payable during 1958 for all fuels consumed for heat, power, or the generation of electricity. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels and purchased steam. The cost of fuels used as raw materials (e. g., natural gas in the production of carbon black) should be included in Item 6a.

**Item 6d. Purchased Electric Energy.**—Report the total amount actually paid or payable for electric energy purchased during 1958 from other companies, or received from other establishments of your company. *Exclude* the value of electricity generated at this establishment.

**Item 6e. Cost of Work Done for You by Others on Your Own Materials During 1958 (Contract Work).**—If any work was done by others on production materials furnished by your establishment, report the total payments made during 1958 for such work, including freight out and in. *Exclude* the cost of materials worked on, which should be included in Item 6a.

**Item 7. Inventories of This Establishment.**—Where a company operates more than one establishment (i. e., plant, sales branch, retail stores, etc.) the inventories held by each establishment should be included on Census reports for that establishment. Inventories should be reported at approximate current costs, if feasible; otherwise at book values.

**Item 8. Capital Expenditures for This Establishment During 1958 (Exclude expenditures for land).**—Capital expenditures cover: New structures and additions (including major alterations, capitalized repairs and improvements) to your plant (whether on contract or by your own forces); new machinery and new equipment; capitalized repairs and improvements to your existing machinery and equipment; and "used" plant and equipment acquired from others. Such expenditures during 1958 may be determined by the following computation: Additions completed during the year, plus construction-in-progress at the end of the year, minus construction-in-progress at the beginning of the year.

**Item 8a. New Structures and Additions to Plant.**—Report total expenditures during 1958 for new construction, major alterations, capitalized repairs, and improvements of buildings (including all new elevators, cranes, heating and ventilating equipment, essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types



of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities, etc.).

**Item 8b. New Machinery and New Equipment.**—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include new machinery and equipment purchased for replacement purposes, as well as for additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment as well as the value of new machinery and equipment transferred from other establishments of this company or produced and used at this establishment. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks and other similar equipment.

**Item 8c. Used Plant and Used Equipment Acquired From Others.**—Report total expenditures at this establishment for old or existing plant and for second-hand equipment acquired from others (including the U. S. Government).

**Item 9. Quantity of Electric Energy Used During 1958.**—Report all quantities of electrical energy in thousands of kilowatt-hours.

**Item 9a. Purchased Electric Energy.**—Enter the quantity of electric energy (in thousands of kilowatt-hours) for which the cost was reported on line 6d.

**Item 9b. Generated Electric Energy.**—Enter here the total quantity of electrical energy generated in this plant during 1958 although a part of such energy may have been sold or transferred.

**Item 9c. Electric Energy Sold or Transferred to Other Plants.**—Include here only that electrical energy which was generated in this establishment and then sold to

other companies or transferred to other plants of your company.

**Items 10–15.**—(See instructions on form.)

**Item 16. Fuels Consumed During 1958.**—(*This item is included on selected report forms.*) Report this item only if your total fuel cost reported in Item 6c is \$5 thousand or more. Include all fuels purchased from other companies or transferred from other establishments of your company. Do not include fuel that was produced and used at this establishment for power or heat; for example, fuel oil produced and consumed at petroleum refineries. Include fuel used as raw materials in Item 17; for example, crude petroleum, coal used in making coke, and gas used in making carbon black. Some forms provide for a check-box on type of fuel oil consumed. "Distillate (light)" fuel oil includes Grade Nos. 1 through 4 and P. S. 100 and 200. "Residual (heavy)" fuel oil includes Grade Nos. 5 and 6 and P. S. 300 and 400. If over 90 percent of the fuel oil used was of one type, check only the principal type.

*If your gas is billed in therms, convert as follows:*

- a. For natural gas—1 therm equals 100 cubic feet
- b. For manufactured gas—6 therms equal 100 cubic feet.

**Items 17–22.**—(See instructions on form.)

**Item 23. Certification.**—Enter the month and day of the beginning and end of year your report covers. If a calendar year report: "From January 1 to December 31, 1958;" if a fiscal year, specify which (such as "From December 1, 1957 to November 30, 1958). If a part year report is submitted specify the actual period covered: for example, January 1, 1958 to August 15, 1958, or June 1 to December 31, 1958.

BUREAU OF THE CENSUS 1958 CENSUS OF MANUFACTURES												LONG FORM CARD																								
PLANT IDENTIFICATION												CARD TYPE	FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		FIELD 9		FIELD 10					
0 0 0 0 0 0 0 0 0 0 0 0												00	SERIAL NUMBER		LOCATION CODE		F O	FORM NUMBER RECODE		W O U L D	INITIAL INDUSTRY CODE		PRODUCTION WORKERS WAGES (000)		OTHER EMPLOYEES SALARIES (000)		TOTAL SALARIES AND WAGES (000)		PRODUCTION WORKERS		MARCH NUMBER		MAY NUMBER		AUGUST NUMBER	
1 1 1 1 1 1 1 1 1 1 1 1												01	NOVEMBER NUMBER		TOTAL QUARTER NUMBER		AVERAGE NUMBER		OTHER EMPLOYEES MARCH NUMBER		ALL EMPLOYEES AVERAGE NUMBER		JANUARY-MARCH (000)		APRIL-JUNE (000)		WORKER MAN-HOURS JULY-SEPTEMBER (000)		OCTOBER-DECEMBER (000)		TOTAL (000)					
2 2 2 2 2 2 2 2 2 2 2 2												02	COST OF MATERIALS, PARTS, SUPPLIES, ETC. (000)		RESALES WITHOUT FURTHER MANUFACTURE (000)		FUELS, ELECTRIC ENERGY, PURCHASED AND CONSUMED (000)		PURCHASED ELECTRIC ENERGY (000)		CONTRACT WORK, ETC., CONTRACT WORK BY OTHERS (000)		TOTAL (000)		2 2 2 2 2 2		2 2 2 2 2 2		2 2 2 2 2 2		2 2 2 2 2 2		2 2 2 2 2 2			
3 3 3 3 3 3 3 3 3 3 3 3												03	FINISHED PRODUCTS (000)		WORK-IN-PROCESS (000)		MATERIALS, SUPPLIES, ETC. (000)		TOTAL (000)		FINISHED PRODUCTS (000)		WORK-IN-PROCESS (000)		MATERIALS, SUPPLIES, ETC. (000)		TOTAL (000)		3 3 3 3 3 3		3 3 3 3 3 3		3 3 3 3 3 3			
4 4 4 4 4 4 4 4 4 4 4 4												04	NEW STRUCTURES AND ADDITIONS (000)		CAPITAL EXPENDITURES DURING YEAR NEW MACHINERY AND EQUIPMENT (000)		USED PLANT AND EQUIPMENT (000)		TOTAL (000)		PURCHASED (000-KWH)		GENERATED (000-KWH)		SOLD OR TRANSFERRED (000-KWH)		4 4 4 4 4 4		4 4 4 4 4 4		4 4 4 4 4 4		4 4 4 4 4 4			
5 5 5 5 5 5 5 5 5 5 5 5												05	FUEL CODE		QUANTITY		COST (000)		5 5 5 5 5 5		5 5 5 5 5 5 5 5		5 5 5 5 5 5 5 5		5 5 5 5 5 5		5 5 5 5 5 5		5 5 5 5 5 5		5 5 5 5 5 5					
6 6 6 6 6 6 6 6 6 6 6 6												06	MATERIAL CODE		QUANTITY		COST (000)		CONSUMED QUANTITY PRODUCED AND CONSUMED		MINIMUM CONSUMPTION CODE		6 6 6 6 6 6 6 6		6 6 6 6 6 6		6 6 6 6 6 6		6 6 6 6 6 6		6 6 6 6 6 6					
7 7 7 7 7 7 7 7 7 7 7 7												07	PRODUCT CODE		QUANTITY OF PRODUCTION		QUANTITY OF SHIPMENTS AND TRANSFERS		VALUE OF SHIPMENTS AND TRANSFERS (000)		QUANTITY OF TRANSFERS		VALUE OF TRANSFERS (000)		QUANTITY PRODUCED AND CONSUMED		← MULTIPLE USE COLUMNS →									
8 8 8 8 8 8 8 8 8 8 8 8												08	ITEM CODE		←						MULTIPLE USE COLUMNS								→							
9 9 9 9 9 9 9 9 9 9 9 9												99	9 9 9 9 9 9 9 9		9 9 9 9 9 9 9 9		9 9 9 9 9 9		9 9 9 9 9 9		9 9 9 9 9 9 9 9		9 9 9 9 9 9 9 9		9 9 9 9 9 9		9 9 9 9 9 9		9 9 9 9 9 9		9 9 9 9 9 9					
1 2 3 4 5 6 7 8 9 10												11 12	13 14 15 16 17 18 19 20		21 22 23 24 25 26 27 28		29 30 31 32 33 34		35 36 37 38 39 40		41 42 43 44 45 46 47 48		49 50 51 52 53 54 55 56		57 58 59 60 61 62		63 64 65 66 67 68		69 70 71 72 73 74		75 76 77 78 79 80					



INST.  
MC-35Q

Department of Commerce  
Bureau of the Census

1958 CENSUS OF MANUFACTURES

Supplemental Instructions for Form MC-35Q, "Industrial Furnaces  
and Ovens"

The following instructions supplement the "General Instructions to Manufacturers  
for Preparing Reports"

INSTALLATION (OR CONSTRUCTION) OF PRODUCTS OF YOUR OWN MANUFACTURE

(These instructions apply to companies engaged in installing or erecting their own manufactured products.)

Where your product is installed or erected by a labor force separate from the regular force attached to your manufacturing establishment, do not include installation costs.—The separate labor force may consist either of a distinct group of your employees not attached to your manufacturing plant, or of local labor hired by you in the field, or a combination of both of these. This labor force should be omitted from the sections on employment and payrolls (Items 3 and 4); the value of the installation services should not be included in the section on products shipped (Item 18); and, the amounts reported for cost of materials, etc. (Item 6), should be restricted to factory operations. However, include in Items 3b and 4g engineering and supervisory personnel on your regular plant payroll who may be engaged in installing or testing your products. If your records do not provide exact figures to serve as the basis for segregating these installation costs, carefully prepared estimates will be acceptable.

When your product is installed or erected by the regular labor force of your manufacturing plant, operating out of the plant itself, installation costs and the value of installation services should be included.—In installations of this type the employees will not be a separate group of workers located away from the premises of the manufacturing plant.

Include these workers engaged in installing your products in Items 3 and 4, "Payrolls and Employment 1958."

Receipts for installation services should be reported separately on line 21, Item 18.

Do not include these receipts in the value of industrial furnaces and ovens as reported on lines 1-11, Item 18.

If your records do not provide exact figures on the value of installation work, carefully prepared estimates will be acceptable.

In no case should installation costs (or the value of the service) be included in your report where the installing or erecting is performed by a separate company, whether the services of that company have been contracted for by your customer or by yourself.

Please state in the Remarks Section of this form whether you install or erect your manufactured products.—If you do such installing or erecting, you should further indicate whether or not the installation costs and value of such services are included in your report (using the above instructions as the basis for reporting).

U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

# 1958 CENSUS OF MANUFACTURES ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

CENSUS USE ONLY		Location	F/O
0			
0-1	0-2		

## PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.

Please complete and return this form to the Bureau of Census, Jeffersonville, Indiana,  
not later than 30 days after you receive it.

<b>ITEM 1A</b> NAME OF ESTABLISHMENT (In answering Item 1B, parts (1) through (5) below, be sure your answers relate to the ACTUAL PHYSICAL LOCATION of your establishment, which may be different from its mailing address.)	<b>ITEM 1B</b> LOCATION OF ESTABLISHMENT 1. STATE _____ 2. COUNTY _____ 3. Is this establishment within the legal boundary of a municipality? Yes <input type="checkbox"/> No <input type="checkbox"/> If "Yes," (a) Enter name of the municipality. (Enter name only if establishment is within legal boundary) (b) Type of municipality. (Check applicable box) <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Borough <input type="checkbox"/> Other (Specify) _____	<b>ITEM 2C</b> FORM OF OWNERSHIP (Check one) (1) <input type="checkbox"/> Individual proprietor (x) <input type="checkbox"/> Partnership (Specify number of working partners _____) (0) <input type="checkbox"/> Corporation (Do not include any form of coop. ass'n) (8) <input type="checkbox"/> Cooperative association (corporate or noncorporate) (9) <input type="checkbox"/> Other (Specify) _____
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U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

# 1958 CENSUS OF MANUFACTURES ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

CENSUS USE ONLY		Location	F/O
0			
0-1	0-2		

## PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.

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**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31, 1954, (13 U. S. C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.

In correspondence pertaining to this report  
please refer to this file number

MC-36Z (3630)

(Please correct any errors in name and address)

**ITEM 2A**  
FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER  
Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)

(Enter all 9 digits)

- (a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes ☐ No ☐
- (b) Does this company own or control another company? Yes ☐ No ☐
- (c) Is this company owned or controlled by another company? If "Yes," is checked in Part (c), give name and address of owning or controlling company. Yes ☐ No ☐

(Check one)  
(1) ☐ Individual proprietor

(x) ☐ Partnership (Specify number of working partners \_\_\_\_\_)

(0) ☐ Corporation (Do not include any form of coop. ass'n)

(8) ☐ Cooperative association (corporate or noncorporate)

(9) ☐ Other (Specify) \_\_\_\_\_



**IMPORTANT—Enter all value figures in THOUSANDS OF DOLLARS**

<b>ITEM 3</b> <b>TOTAL 1958</b> <b>PAYROLLS</b>	<b>Total 1958 payrolls:</b> wages, salaries, bonuses, commissions and other remunerations paid in entire year 1958, before deductions. (Exclude payments to proprietors or partners, if an unincorporated firm. You may follow the definition of salaries and wages that is used for calculating the withholding tax.)	Amount (Thousands of dollars) \$	Key 0-5						
<b>ITEM 4</b> <b>NUMBER OF</b> <b>PAID</b> <b>EMPLOYEES</b>	<b>Total number of paid employees</b> during the pay period ended nearest the 15th of the following months in 1958. (Exclude proprietor or partners, if an unincorporated concern. You may follow the definition of employees specified by your State Employment Security Agency.)	<table border="1"> <tr> <td>March</td> <td>May</td> <td>November</td> </tr> <tr> <td>0-6</td> <td>0-7</td> <td>0-8</td> </tr> </table>	March	May	November	0-6	0-7	0-8	0-9 *
March	May	November							
0-6	0-7	0-8							
<b>ITEM 5</b>	(Not applicable to this industry)								
<b>ITEM 6</b> <b>COST OF</b> <b>MATERIALS,</b> <b>FUELS,</b> <b>ELECTRICITY,</b> <b>ETC.</b>	<b>a. Cost of materials, parts, components, supplies, containers, fuel and electric energy consumed during 1958</b>	Cost (Thousands of dollars) \$	1						
	<b>b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1958</b>	\$	1-1						
	<b>c. Cost of work done for you by others on your own materials (contract work) during 1958</b>	\$	1-2						
	<b>d. Total cost (Sum of a, b, and c)</b>	\$	1-3						
<b>ITEM 7</b> <b>INVENTORIES</b> <b>OF THIS</b> <b>ESTABLISH-</b> <b>MENT</b>	(Report value of all inventories of this establishment, including finished products, work-in-process, materials, supplies, fuel, etc. Do not include goods held by you, but owned by others.)	Value (Thousands of dollars) \$	1-4						
	<b>a. Beginning of 1958 inventories</b>	\$	1-5						
	<b>b. End of 1958 inventories</b>	\$	1-6						
<b>ITEM 8</b> <b>CAPITAL</b> <b>EXPENDI-</b> <b>TURES</b> <b>DURING 1958</b>	Report all expenditures during 1958 for new plant, new equipment, and new machinery that are chargeable to the fixed assets accounts of this establishment and are of the type for which depreciation accounts are maintained. Include major alterations and capitalized repairs but do not include expenditures for land or for used plant and equipment. If no capital expenditures were made during the year, insert "None."	Amount (Thousands of dollars) \$	1-7 *						
<b>ITEMS 9-17</b>	(Not applicable to this industry)								

(OVER)

## Form MC-36Z—Electric Machinery, Equipment, and Supplies—Continued

Page 2

Nature of Activity.—Describe briefly the kinds of activity at this establishment. Cover all activities, both manufacturing and nonmanufacturing. For manufactured products, indicate process of manufacture, materials used, and type of products made. Examples: "Make mica parts for radios," "Rebuild TV picture tubes," "Assemble electric sockets," "Rewind motors."

ITEM 18  
PRODUCTS  
AND  
SERVICES  
OF THIS  
ESTABLISH-  
MENT  
DURING  
1958

## REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS

Enter on line 39, Column E below the total receipts from products shipped or services sold by this establishment during 1958. Account for all receipts of this establishment. Then report separately in Column E the value of shipments of each product listed. Do not combine product lines.

If some or all of the products you made in 1958 are not listed, please list each such product on a separate line under "All other products" (lines 31-35) and enter in Column E the 1958 value of shipments.

7	Product class description A	Line No.	7-1XX Product class code B	7-4 Value of shipments and receipts (In thousands of dollars) E	7	Product class description A	Line No.	7-1XX Product class code B	7-4 Value of shipments and receipts (In thousands of dollars) E	7-4 Value of shipments and receipts (In thousands of dollars) E
a. Products Made in this Establishment	Wiring devices, current carrying	1	36111 99 8	\$		Electrical equipment for internal combustion engines except ignition harness and cable sets	17	36412 99 0	\$	
	Wiring devices, noncurrent carrying	2	36112 99 1	\$		Phonograph needles and cutting styli	18	36611 00 7	\$	
	Integrating instruments, electric	3	36131 99 0	\$		Radio and T.V. broadcast equipment, radar and sonar equipment; broadcast antennas; transceivers	19	36614 99 2	\$	
	Test equipment for testing electrical, radio, and communication circuits and motors	4	36132 99 3	\$		Electronic type components for communications equipment	20	36615 99 5	\$	
	Other electrical measuring instruments (except tripping transformers) (Specify kind)	5	36133 97 0	\$		Recorders (except office wire and tape dictating machines) and recording wire and tape; amplifiers; projection audio equipment; public address systems	21	36616 99 8	\$	
	Rewinding electric motors	6	95120 51 5	\$		Picture tubes, TV, including rebuilt	22	36621 99 4	\$	
	Parts for motors and generators	7	36146 11 4	\$		Phonograph records	23	36631 99 5	\$	
	Parts for electric transformers	8	36153 99 8	\$		Intercommunication equipment; railroad signals, electric	24	36691 11 9	\$	
	Industrial electrical control equipment except railway and motor vehicle controllers	9	36162 99 6	\$		Street traffic electric signals	25	36693 11 5	\$	
	Arc welding machines, components and accessories excluding electrodes	10	36171 99 4	\$		Storage batteries, SLI type	26	36911 99 2	\$	
	Arc welding electrodes	11	36172 99 7	\$		Medical, dental, and industrial X-ray equipment, components, and tubes	27	36931 99 4	\$	



	High frequency induction and dielectric heating apparatus	12	36191 99	6	\$			28	36932 99	7	\$
	Coil windings, electrical	13	36193 81	7	\$						
	Electric fans, except industrial type	14	36211 99	1	\$			29	36993 99	6	\$
	Small electrical appliances, household	15	36213 99	7	\$						
	Insulated wire and cable, except communication	16	36312 99	7	\$			30	36313 99	0	\$
	All other products (Specify kind)							31			\$
<b>b. Miscellaneous Receipts</b>	Receipts for work done for others on their own materials (Contract work). (Describe products worked on and kind of work)							32			\$
								33			\$
								34			\$
								35			\$
								36	93000 99	6	\$
<b>c. Resales</b>	Receipts for repair work, installation of own products, and sale of scrap and refuse							37	99980 99	7	\$
	Sales of products bought and resold without further manufacture, processing, or assembly in this establishment							38	99989 99	4	\$
<b>d. Total—</b> (Sum of lines 1-38)								39	77000 99	4	\$
<b>ITEMS 19-22</b> (Not applicable to this industry)											
Remarks											
<b>ITEM 23</b> <b>CERTIFICATION</b>		This report is substantially accurate and prepared by _____ on _____ Date _____ Signature _____									





# APPENDIX E.—PROVISIONS OF LAW RELATING TO CENSUS OF MANUFACTURES

(From Title 13 United States Code)

SECTION 131. The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades, service establishments, and transportation (exclusive of means of transportation for which statistics are required by law to be filed with, and are compiled and published by, a designated regulatory body), in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: Provided, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to year 1954. The censuses provided for in this section shall include the United States and its Territories and such Possessions as the Secretary may determine.

SECTION 224. Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge

all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

SECTION 9. (a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may . . .

(1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or

(2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or

(3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.





# APPENDIX F.—ALPHABETIC INDEX OF MANUFACTURED PRODUCTS

This index is designed primarily to assist the user in finding the numeric code for manufactured products and locating data for specific products in table 6A "Quantity and Value of Products Shipped." Included in this index are approximately 7,000 individual product lines listed on the 1958 Census of Manufactures report forms as well as alternate descriptions of some of these lines and listings of items included in "all other" categories. Accordingly, data do not appear for every alphabetic entry in this index; conversely, table 6A may contain greater detail by size, type of material, etc., than is shown in this index for particular items. Where a product line appears in more than one table 6A, the page numbers are shown for each table 6A.

Census code classifications are based on the 1957 edition of the Standard Industrial Classification Manual issued by the Bureau of the Budget; the Census expansion of 4-digit classifications to 5 and 7 digits is shown in table 6A.

Product	Code	Page	Product	Code	Page
<b>A</b>			<b>Agricultural--Continued</b>		
Abrasive paper stock.....	2621759	26A-13	Machinery (except tractors).....	3522300-898	35A-13-20
Abrasive points; wheels; disks, dental.	3843061	38A-22	Organic chemicals, except preparations.....	2818411	28A-19
Abrasives: metallic; nonmetallic.....	3291117-498	32E-15	Air and gas compressors, except refrigeration compressors.....	3561411-67	35E-17
Absorbent cotton, sterilized.....	3842127	38A-21	Air brushes, artists'.....	3952211	39C-15
Accordions and parts.....	3931498	39B-12	Air-conditioning equipment.....	35851--	35G-16-17
Account books, other than sales books..	2782111	27C-15	Aircraft--		
Accounting machines.....	3571212	35F-10	Complete.....	3721110-959	37B-11
Acetate, cellulose (plastics).....	2821111-25	28B-12	Engines.....	37221, 37222	37B-11
Acetate yarn.....	28231--	28B-14	Engine instruments, except flight....	3821111	38A-20
Acetic acid natural, hardwood distillation.....	2861231	28F-12	Flight instruments and automatic pilots.....	3811111	38A-20
Acetic acid, synthetic.....	2818211	28A-19	Hardware.....	3429131	34A-16
Acetylene.....	2813210	28A-17	Landing gear.....	3729198	37B-11
Acetylene welding and cutting apparatus	3548321-31	35C-19	Nautical and navigational instruments	3811111-98	38A-20
Acids (see also specific kind):			Parts, not elsewhere classified.....	3729198	37B-11
Acetic (synthetic); lactic; tartaric)	2818211	28A-19	Propellers, complete.....	3723011	37B-11
Chlorosulfonic.....	2819421	28A-20	Air washers.....	3564231	35E-19
Chromic.....	2819431	28A-20	Alarms and signalling systems, electric	3662341-49	36D-19
Fatty.....	2894011-81	28G-16	Albums and scrap books.....	2782131	27C-15
Inorganic, except nitric and sulfuric	2819411-98	28A-20	Alcohol:		
Nitric.....	2819111	28A-20	Ethyl, industrial.....	2848511-21	28A-19
Organic, natural.....	2818551	28A-19	Grain (for beverage purposes).....	2085111-381	20G-14
Organic, synthetic.....	2818598	28A-19	Methyl, natural.....	2861241	28F-12
Perchloric.....	2819498	28A-20	Ale.....	2082019, 41, 63	20G-13
Phosphoric.....	2819481-85	28A-20	Alfalfa meal.....	2042431-35	20D-14
Sulfuric.....	2819311-71	28A-20	Alkalies.....	2812231-481	28A-17
Tannic, natural.....	2818551	28A-19	Alkaloids and salts, medicinal (bulk uncompounded).....	2833121-28	28C-9
Activated carbon.....	2819924-26	28A-22	Alloys (see also specific kind).....	3341111-641	33C-16-18
Acyclic chemicals; misc.....	2818211	28A-19	Aluminum--		
Adding machines.....	3571212	35F-10	Base alloys.....	3334111, 3341111, 3352011	33C-17
Additives, ferroalloy.....	3312195, 3313012	33A-15	Castings.....	3361011-61	33D-24
Addressing machines.....	3579010	35F-11	Compounds, except alum-oxide.....	2819611-71	28A-21
Adhesive--			Foil, converted.....	3497031-39	34E-23
Plaster.....	3842124	38A-21	Foil, plain.....	3352311-21	33D-18
Tape, cellophane.....	2641451	26B-14	Forgings.....	3392033-35	33E-9
Tape, pressure sensitive, except rubber.....	2641411-71	26B-14	Refined, unalloyed.....	3334211	33C-17
Tape, surgical.....	3842124	38A-21	Rolling and drawing, except wire....	3352213-655	33D-18
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Product	Code	Page	Product	Code	Page
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# 1963 CENSUS OF MANUFACTURES

## CHANGE SHEET

The following changes should be made to Final Industry Reports MC63(2)-33A, MC63(2)-34E, and Volume II, Industry Statistics, Part II, Major Groups 29 to 39 and 19, pages 33A-24 and 34E-23.

Product code	Product	1963 quantity (short tons)	
		As published	As revised
33151 11 34811 11	} Iron and steel wire rope and cable....	235,262	205,279
33151 11	Made in industries 3312 and 3315....	135,385	105,402
34811 11	Made in industry 3481 and other industries.....	99,877	99,877

JULY 1967

U.S. DEPARTMENT OF COMMERCE Alexander B. Trowbridge, Secretary  
William H. Shaw Asst. Secy., Economic Affairs  
BUREAU OF THE CENSUS A. Ross Eckler, Director



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## CHANGE SHEET

The following changes should be made to Final Industry Reports  
MOES(2)-35A MOES(2)-35E, and Volume II, Industry Statistics, Part II, Major  
Groups 29 to 39 and 19, pages 33A-34 and 34E-35

Product Code	1963 quantity (short tons)	As revised	As published
3301 11	Iron and steel wire rope and cables...	505,250	505,205
3301 11	Made in 330100 3310 and 3315...	105,405	105,385
3301 11	Made in industry 3301 and other	505,250	505,205

JULY 1967



U.S. DEPARTMENT OF COMMERCE  
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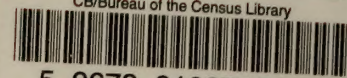


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